

## Advantage Quinclorac

For selective post-emergence control of green foxtail, cleavers, volunteer flax and barnyard grass and suppression of annual and perennial sow-thistle in spring and durum wheat, spring barley, canary seed, canola, **Clearfield** canola quality *Brassica juncea*, and tame mustard (brown and oriental).

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

**COMMERCIAL (AGRICULTURAL)**

**ACTIVE INGREDIENT:** Quinclorac..... 75%

Wettable granular

**REGISTRATION NO. 35274 PEST CONTROL PRODUCTS ACT**

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS PRODUCT, CALL COLLECT DAY OR NIGHT 1-613-966-6666**

**CAUTION - SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER**

**READ THE LABEL AND ATTACHED BEFORE USING KEEP OUT OF**

**REACH OF CHILDREN**

Advantage Crop Protection Inc.  
620 4th Ave E  
Regina, Saskatchewan  
S4N 4Z5 Canada  
1-888-931-2530

**NET CONTENTS:** 1.0 kg – 10 kg

## GENERAL INFORMATION

**Advantage Quinclorac** is a dry flowable herbicide for selective post-emergence control of green foxtail (including Group 1 and Group 3 resistant biotypes), volunteer flax, cleavers, and barnyard grass in hard red spring, Canadian prairie spring, durum, Canada Western extra strong wheats, spring barley and canary seed, canola (*Brassica napus* – all varieties, including conventional, **Clearfield**®, LibertyLink® and Roundup Ready®), **Clearfield** canola quality *Brassica juncea* (e.g. canola quality *Brassica juncea* varieties with the **Clearfield** trait) and brown and oriental tamemustard.

**Advantage Quinclorac** is a herbicide with mainly systemic action. Uptake into the plant occurs through both the foliage and root system. Thorough coverage of foliage is important for consistent weed control. Failure to penetrate crop or weed leaf canopies with the spray will result in inconsistent control of weeds growing underneath.

Visual symptoms of weed control of **Advantage Quinclorac** may take up to two weeks following application to develop. These symptoms include initial twisting to stunting, reddening and chlorosis about 14 days followed by necrosis and death about 21 days after application. Even though **Advantage Quinclorac** symptoms may take some time to develop, competition from the weeds treated with **Advantage Quinclorac** is eliminated soon after application.

## DIRECTIONS FOR USE

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

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

### Application Rate and Timing for Wheat, Spring Barley and Canary Seed

DO NOT APPLY BY AIR.

Apply **Advantage Quinclorac** at 135-165 g/ha when weeds are small and actively growing. **Advantage Quinclorac** will control the weeds at the timing detailed in **Table 1**. **Advantage Quinclorac** can be applied to wheat, spring barley and canary seed at the maximum application rates and timing detailed in **Table 1**.

Use the 135 g/ha rate ONLY for control of volunteer flax, barnyard grass, cleavers, lighter infestations of green foxtail and suppression of annual and perennial sow-thistle. Use the higher rate of 165 g/ha for control of heavier infestations of green foxtail. (Do not use the 165 g/ha rate on barley.) **Use only the 135 g/ha rate when applying Advantage Quinclorac to spring barley.**

Improved cleavers control in canola may be accomplished using a rate of 62 g/ha when tank mixed with Liberty 150 SN Herbicide at a rate of 3.33 L/ha on Liberty Link Canola, or with glyphosate products (360 g/L acid equivalent (ae) isopropylamine salt formulations or 540 g ae/L potassium salt formulations) at a rate of 667 g ae/ha on Roundup Ready Canola. All glyphosate products must be registered for post-emergent use on glyphosate tolerant canola varieties. Application should be made from the 2 to 6 leaf stage of the canola crop when cleavers are between the cotyledon to 3 whorls stage.

DO NOT apply **Advantage Quinclorac** to any field more often than every second year. This practice must be respected in order to avoid potential injury to future rotational crops, to minimize the potential for carryover and accumulation of soil residues, and to reduce the selection pressure which could contribute to the development of resistant biotypes.

Early treatment of weeds with **Advantage Quinclorac** is important to maximize crop yield potential through elimination of early weed competition. Some initial crop injury may be observed after application, but this is usually outgrown and should not affect crop yield.

Crop	Use Rate (g/ha)	Preharvest Interval (days)
Canola <sup>1</sup> , <b>Clearfield</b> canola quality <i>Brassica juncea</i> , and tame mustard (brown and oriental)	135	60
Wheat (spring and Durum) and canary seed	135-165	77
Spring barley	135	80

<sup>1</sup>*Brassica napus* – all varieties, including conventional, **Clearfield**, LibertyLink and Roundup Ready.

**TABLE 1: WEED AND CROP APPLICATION TIMING TABLE**

WEED	TRUE LEAF RANGE
Green foxtail	1 - 5 leaf (max 2 tillers)
Volunteer flax	1 - 8 cm.
Cleavers	1 - 3 whorls
Barnyard grass	1 - 5 leaf
Annual sow-thistle*	2 – 6 leaf
Perennial sow-thistle*	2 – 6 leaf
CROP	
Spring barley**	1 – 4 leaf (prior to tillering)
Wheat (spring and durum)	1 - 5 leaf
Canola <sup>1</sup>	2 - 6 leaf
Canary seed***	3 – 5 leaf
<b>Clearfield</b> canola quality <i>Brassica juncea</i>	2 - 6 leaf
Brown and oriental tame mustard	2 - 6 leaf

\*Suppression only.

\*\*Maximum rate for barley is 135 g/ha. To avoid crop injury, apply **Advantage Quinclorac** before spring barley tillers.

\*\*\*Not to be used for human consumption or fed to livestock.

<sup>1</sup>*Brassica napus* – all varieties, including conventional, Clearfield, LibertyLink and Roundup Ready.

## SPRAYING INSTRUCTIONS

### Ground Application

Use sprayers equipped with standard flat fan pesticide nozzles with a spray volume of 100 L/ha at a constant pressure of 275-425 kPa. Tilt spray nozzles 45 degrees forward to ensure better coverage. The use of 50 mesh strainers and screens is recommended.

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) fine classification. Boom height must be 60 cm or less above the crop or ground.

## ADDITIVES

Always use **MERGE** adjuvant at 1.0% v/v for optimum performance of **Advantage Quinclorac**.

## TANK MIX COMBINATIONS (BARLEY, WHEAT AND CANARY SEED APPLICATIONS ONLY):

For the appropriate rate of **Advantage Quinclorac**, refer to the Application Rate and Timing section of the label.

### Broadleaf Weed Control

Although **Advantage Quinclorac** provides control of several broadleaf weeds, a tank mix with a broadleaf compound is required to give broad spectrum broadleaf weed control in wheat.

For additional control of broadleaf weeds in barley and wheat, **Advantage Quinclorac** can be tank mixed with any of the broadleaf herbicides listed in **Table 2**. When tank mixing **Advantage Quinclorac** with these broadleaf herbicides, a slight reduction in control of green foxtail may be observed. The level of green foxtail control may be improved by using the 165 g/ha rate of **Advantage Quinclorac** in the tank mixture for wheat only.

Refer to **Table 2** for appropriate use rates and timing of crop applications. Always refer to the labels of all tank mix partners and observe the most restrictive application directions, restrictions, precautions and personal protective equipment of all tank mix partners.

**TABLE 2: TANK MIX OPTIONS FOR ADVANTAGE QUINCLORAC ON BARLEY, WHEAT, AND CANARY SEED**

Crop	Advantage Quinclorac Rate (g/ha)	Tank Mix Partner	Rate	Crop Stage	Weeds Controlled
Barley	135	<b>MCPA Amine</b> (assume 500 series)	1.1 L/ha	3-4 leaf	<b>Advantage Quinclorac</b> – see Table 1. Broadleaf weeds listed on <b>MCPA Amine</b> label.
		<b>MCPA Ester</b> (assume 500 series)	1.1 L/ha	3-4 leaf	<b>Advantage Quinclorac</b> – see Table 1. Broadleaf weeds listed on <b>MCPA Ester</b> label
		<b>Buctril M</b>	1.0 L/ha	2-4 leaf	<b>Advantage Quinclorac</b> – see Table 1. Broadleaf weeds listed on <b>Buctril M</b> label
Wheat (spring and durum)	135-165	<b>Buctril M</b>	1.0 L/ha	2-5 leaf	<b>Advantage Quinclorac</b> - see Table 1. Broadleaf weeds listed on <b>Buctril M</b> label.
		<b>2,4-D Amine</b> (assume 500 series)	0.840-1.1 L/ha	3-5 leaf	<b>Advantage Quinclorac</b> -see Table 1. Broadleaf weeds listed on <b>2,4-D Amine</b> label.

		<b>2,4-D Ester</b> (assume 500 series)	0.840-1.1 L/ha	4-5 leaf	<b>Advantage Quinclorac</b> - see Table 1. Broadleaf weeds listed on <b>2,4-D Ester</b> label.
		<b>MCPA Amine</b> (assume 500 series)	0.840-1.1 L/ha	3-5 leaf	<b>Advantage Quinclorac</b> - see Table 1. Broadleaf weeds listed on <b>MCPA Amine</b> label.
		<b>MCPA Ester</b> (assume 500 series)	0.840-1.1 L/ha	3-5 leaf	<b>Advantage Quinclorac</b> - see Table 1. Broadleaf weeds listed on <b>MCPA Ester</b> label.
Canary seed <sup>1</sup>	135	<b>Buctril M</b>	1.0 L/ha	3-5 leaf	<b>Advantage Quinclorac</b> - see Table 1. Broadleaf weeds listed on <b>Buctril M</b> label.

<sup>1</sup>Avoid over application.

Do not delay spraying broadleaf weeds if grassy weeds are not in the correct stage for treatment. If green foxtail, wild oats and broadleaf weeds are not in the correct stages for treatment, apply separate applications of each herbicide timed to control the required spectrum of weeds. Use **MERGE** adjuvant only with all tank mixtures.

## RECROPPING

Due to the residual activity of **Advantage Quinclorac** in the soil, land treated with **Advantage Quinclorac** cannot be rotated to crops other than specified in **Table 3**. To avoid injury to rotational crops, the minimum recropping intervals in **Table 3** must be followed.

**TABLE 3: MINIMUM RECROPPING INTERVALS**

CROP	MINIMUM RECROPPING INTERVAL (Months)	NOTES
Wheat* (spring, durum) Spring barley* Canola*	0 0 0	These crops can be re-planted in the same season as <b>Advantage Quinclorac</b> applications.
Field peas Sunflowers	10 10	These crops and the crops listed above can be planted the year following application of <b>Advantage Quinclorac</b> .
Oats	12	These crops and the crops listed above can be planted the year following application of <b>Advantage Quinclorac</b> .
Flax Lentils	10 10	These crops and the crops listed above can be planted the year following application of <b>Advantage Quinclorac</b> .
*In the event of crop failure, only canola, spring or durum wheat or spring barley may be reseeded in fields treated with <b>Advantage Quinclorac</b> .		

**Advantage Quinclorac should not be used on land where potatoes or vegetables are part of the rotation.**

The company recommends that a field bioassay (a test strip grown to maturity) be conducted the year before growing any crops other than those listed in **Table 3**.

On lighter soils with low organic matter or under dry conditions, some crop injury may occur particularly in flax and lentils but will not reduce yield. Under these conditions, the minimum recropping interval for flax and lentils should be extended by 12 months.

## **RESTRICTIONS AND LIMITATIONS**

1. Do not apply **Advantage Quinclorac** when weather conditions may cause spray drift from treated areas to adjacent crops. Certain crops such as alfalfa, clover species, fababeans, flax, lentils, ornamentals, potatoes and vegetables will be injured by spray drift of **Advantage Quinclorac**.
2. Do not apply **Advantage Quinclorac** to wheat, spring barley and canary seed under seeded to forages.
3. Do not apply **Advantage Quinclorac** to wheat, spring barley, canary seed, canola, **Clearfield** canola quality *Brassica juncea* or tame mustard that has been subjected to stress from conditions such as frost, hail damage, flooding, drought, extended cold period, etc.
4. Rainfall within 6 hours after application may reduce effectiveness of spray.
5. When **Advantage Quinclorac** is applied beyond the recommended growth stages, limited crop injury and/or unsatisfactory weed control may result.
6. Cool weather conditions or drought will delay herbicide activity and if prolonged, may result in poor weed control.
7. Do not use **Advantage Quinclorac** with additives, pesticides or fertilizers not specifically recommended on this label.
8. Allow 4 days between application of **Advantage Quinclorac** and any other chemical not recommended as a tank mix combination on this label.
9. **Advantage Quinclorac** must not be applied within 77 days of harvest of canary seed and wheat, within 60 days of harvest of canola and within 80 days of harvest of spring barley.
10. Spring barley treated with **Advantage Quinclorac** is NOT TO BE USED FOR HUMAN CONSUMPTION.
11. Canary seed treated with **Advantage Quinclorac** is NOT TO BE USED FOR HUMAN CONSUMPTION OR FED TO LIVESTOCK.
12. Apply using ground equipment only. DO NOT APPLY BY AIR.
13. Do not graze the treated crops or cut for hay within 77 days of application.
14. Grain and meal from treated canola can be fed to livestock. DO NOT graze or feed other portions of the treated canola to livestock.

## Spray Buffer Zones

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).

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of Terrestrial Habitats
Field Sprayer	Durum and spring wheat, canary seed	4
	Spring barley Canola - Brassica napus (conventional, Clearfield, LibertyLink and Roundup Ready varieties), Canola - Brassica juncea (conventional, Clearfield, LibertyLink and Roundup Ready varieties) and Tame mustard (brown and oriental)	3

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 mix partners.

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 website.

### MIXING

1. Thoroughly clean the sprayer prior to use. For appropriate cleaning instructions, refer to the label of the product sprayed previous to application of **Advantage Quinclorac**.
2. Fill the clean spray tank half full with clean water. Start agitation or by-pass system. Agitation should be running during the entire mixing procedure.
3. Add the correct amount of **Advantage Quinclorac** and agitate 2 to 3 minutes.
4. Add the correct amount of **MERGE** adjuvant and agitate 2 to 3 minutes.
5. Add remainder of water to the spray tank and maintain sufficient agitation during mixing and spraying to ensure a uniform spray mixture.
6. For sprayer clean-up, refer to the sprayer clean-up section.

## SPRAYER CLEAN-UP

Certain crops such as alfalfa, clover species, fababeans, flax, lentils, ornamentals, potatoes, tomatoes and vegetables are particularly sensitive to **Advantage Quinclorac**. To avoid injury to subsequent crops other than wheat, the sprayer should be thoroughly cleaned immediately after use and prior to spraying other crops by performing the following steps:

1. Following spray application, drain any remaining spray solution, then flush the tank, boom and hoses with clean water until any visible residues are removed. (Repeat step 1, if necessary.) **DO NOT CLEAN SPRAYER NEAR DESIRABLE VEGETATION OR NEAR WELL OR WATER SOURCE.**
2. Completely fill spray tank with clean water while adding 1 litre of household ammonia (containing 3% ammonia) per 100 litres of water or a commercially licensed tank cleaner such as **FINNISH®**. Reduce the amount of ammonia added proportionally if higher concentrations (%) of ammonia are used. Flush the solution through the boom and nozzles and then add more water to completely refill the tank. Agitate the solution for at least 15 minutes and then flush the boom and nozzles until the spray tank is empty.
3. Remove the nozzles and screens and clean separately in a bucket containing a cleaning agent and water.
4. Repeat step 2.
5. Thoroughly rinse the tank with clean water and flush the water through the boom.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **Advantage Quinclorac** is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **Advantage Quinclorac** and other Group 4 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 **Advantage Quinclorac** or other Group 4 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 partners.
- 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 Advantage Crop Protection Inc. at 1-888-931-2530.

## PRECAUTIONS

- 1 **KEEP OUT OF REACH OF CHILDREN.**
- 2 May irritate the skin. Avoid contact with the skin.
- 3 Potential skin sensitizer.
- 4 Wash thoroughly after handling and before eating, drinking or smoking.
- 5 Wear protective equipment and clothing, including goggles or face shield, gloves (rubber, PVC, neoprene or nitrile), hat, long-sleeved shirt, trousers and rubber boots during mixing, loading, application, clean-up and repair activities.
- 6 If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
- 7 Clean spray equipment thoroughly after use. Refer to sprayer clean-up section.
- 8 **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- 9 Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- 10 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 recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

## ENVIRONMENTAL PRECAUTIONS

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

### LEACHING

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

### RUN-OFF

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.

## FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If 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 eye. Call a poison control centre or doctor for treatment advice.

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

## TOXICOLOGICAL INFORMATION

Treat symptomatically.

## STORAGE

- 1 Store this product away from food or feed.
- 2 Store in original, tightly-closed container.
- 3 Do not ship or store near food, feed, seed or fertilizers.
- 4 Store in cool, dry, locked, well-ventilated area without floor drain.
- 5 Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.
- 6 Freezing will not harm **Advantage Quinclorac**. Should product freeze, warm to room temperature prior to use.

## DISPOSAL

### Returnable Containers

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

## NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

MERGE® is a registered trademark of BASF Canada Inc.

®All other products listed are registered trademarks of their respective companies.

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