

2024-09-27

2024-0667

This label has been updated according to the re-evaluation decision of Quizalofop-p-ethyl RVD2024-03. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 02-23-2026 in accordance with the phase out period set out in the re-evaluation decision of Quizalofop-p-ethyl RVD2024-03. This previously approved label will be provided upon request by emailing [hc.pmra.info-arla.sc@canada.ca](mailto:hc.pmra.info-arla.sc@canada.ca). In your email please include the product name and Registration number of the label you are requesting.

\*Container Label\*



## VIKING™ Quizalofop Herbicide

GROUP	1	HERBICIDE
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EMULSIFIABLE CONCENTRATE

COMMERCIAL (AGRICULTURAL)

FOR SALE FOR USE ON CAMELINA, CANOLA, FLAX, (INCLUDING LOW LINOLENIC ACID VARIETIES), SOYBEANS (INCLUDING VARIETIES DESIGNATED "STS"), SEED ALFALFA, LENTILS, PEAS (FIELD AND PROCESSING), SEEDLING LEGUMES FOR SEED PRODUCTION, SEEDLING OR ESTABLISHED CREEPING RED FESCUE FOR SEED PRODUCTION, ESTABLISHED RED AND ALSIKE CLOVER FOR SEED PRODUCTION, DRY FABA BEANS (DRY BROAD BEANS) AND NARROW LEAF LUPIN, SUGARBEETS, AND SNAP BEANS; DRY COMMON BEANS; FOR USE IN WESTERN CANADA ON CHICKPEAS; CONDIMENT AND OILSEED TYPE ORIENTAL MUSTARD (INCLUDING CANOLA QUALITY BRASSICA JUNCEA); YELLOW AND BROWN MUSTARD; CRAMBE; ETHIOPIAN MUSTARD (BRASSICA CARINATA), SASKATOON BERRIES, THE FOLLOWING BEANS IN SOUTHERN ONTARIO (LIMA, ADZUKI AND MUNG BEANS); RUTABAGAS IN ONTARIO AND QUEBEC; AND ON INDUSTRIAL HEMP GROWN FOR FIBRE, SEED AND OIL PRODUCTION AND CUCURBIT VEGETABLES IN CANADA.

**REGISTRATION NO.** 34759 PEST CONTROL PRODUCTS ACT

**ACTIVE INGREDIENT:** quizalofop-p-ethyl 96 g/L

**NET CONTENTS:** 1 L to 1020 L

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

**DANGER– CORROSIVE TO EYES**

**SKIN IRRITANT**

**POTENTIAL SKIN SENSITIZER**

**In case of emergency call the 24 hour Emergency Response Number 1-800-424-9300 or 1-703-527-3887**

**Viking Crop Production Partners Inc.**

Box 18033

RPO Shawnessy

Calgary, AB. T2Y 0K3

1-587-743-1029

Viking (TM) is a trademark of Viking Crop Production Partners Inc.

**PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN**
- DANGER – CORROSIVE TO EYES
- WARNING – SKIN IRRITANT
- POTENTIAL SKIN SENSITIZER
- May be harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation.
- Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapours or spray mist. Use adequate ventilation.
- 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 goggles or face shield during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.
- When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, school and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
- DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days following application for scouting activities in camelina. For all other crops, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**ENVIRONMENTAL PRECAUTIONS:**

- TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- 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 contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms.

**FIRST AID:****IF SWALLOWED:**

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

**IF ON SKIN OR CLOTHING:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**IF INHALED:**

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

**IF IN EYES:**

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

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

**TOXICOLOGICAL INFORMATION:** THIS PRODUCT CONTAINS PETROLEUM DISTILLATES. Vomiting may cause aspiration pneumonia. Treat symptomatically.

**STORAGE:**

Store this product away from food or feed. Not for use or storage in or around the home. Keep container closed. DO NOT FREEZE.

**DISPOSAL:****For recyclable containers**

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.
2. Add the rinsing's to the spray mixture in the tank.
3. 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/territorial requirements.

**For returnable containers**

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

**For refillable containers**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

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.

\*Booklet Label\*



# VIKING

## VIKING™ Quizalofop Herbicide

GROUP	1	HERBICIDE
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EMULSIFIABLE CONCENTRATE

COMMERCIAL (AGRICULTURAL)

FOR SALE FOR USE ON CAMELINA, CANOLA, FLAX, (INCLUDING LOW LINOLENIC ACID VARIETIES), SOYBEANS (INCLUDING VARIETIES DESIGNATED "STS"), SEED ALFALFA, LENTILS, PEAS (FIELD AND PROCESSING), SEEDLING LEGUMES FOR SEED PRODUCTION, SEEDLING OR ESTABLISHED CREEPING RED FESCUE FOR SEED PRODUCTION, ESTABLISHED RED AND ALSIKE CLOVER FOR SEED PRODUCTION, DRY FABA BEANS (DRY BROAD BEANS) AND NARROW LEAF LUPIN, SUGARBEETS, AND SNAP BEANS; DRY COMMON BEANS; FOR USE IN WESTERN CANADA ON CHICKPEAS; CONDIMENT AND OILSEED TYPE ORIENTAL MUSTARD (INCLUDING CANOLA QUALITY BRASSICA JUNCEA); YELLOW AND BROWN MUSTARD; CRAMBE; ETHIOPIAN MUSTARD (BRASSICA CARINATA), SASKATOON BERRIES, THE FOLLOWING BEANS IN SOUTHERN ONTARIO (LIMA, ADZUKI AND MUNG BEANS); RUTABAGAS IN ONTARIO AND QUEBEC; AND ON INDUSTRIAL HEMP GROWN FOR FIBRE, SEED AND OIL PRODUCTION AND CUCURBIT VEGETABLES IN CANADA.

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**PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN**
- DANGER – CORROSIVE TO EYES
- WARNING – SKIN IRRITANT
- POTENTIAL SKIN SENSITIZER
- May be harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation.
- Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapours or spray mist. Use adequate ventilation.
- 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 goggles or face shield during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.
- When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, school and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
- DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days following application for scouting activities in camelina. For all other crops, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**ENVIRONMENTAL PRECAUTIONS:**

- TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- 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 contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms.

**FIRST AID:****IF SWALLOWED:**

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**IF ON SKIN OR CLOTHING:**

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**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.

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**TOXICOLOGICAL INFORMATION:**

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**STORAGE:**

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**DISPOSAL:****For recyclable containers**

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**For refillable containers**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

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.

**IMPORTANT**

Injury to or loss of desirable trees or vegetation may result from failure to observe the following: Do not apply, drain or flush equipment on or near desirable trees or plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water including irrigation water that may be used on other crops.

Use caution when handling **VIKING Quizalofop Herbicide** as accidental spills or splashes may harm the finish on painted equipment.

DO NOT SUBJECT TO TEMPERATURES BELOW 0°C.

## GENERAL INFORMATION

**VIKING Quizalofop Herbicide** is a selective postemergence herbicide for the control of annual and perennial grasses in flax (including low linolenic acid varieties), canola, soybeans (including varieties designated "STS"), seed alfalfa, lentils, peas (field and processing) and seedling legumes for seed production. Recommended rates and timing for **VIKING Quizalofop Herbicide** application will provide control of the emerged grasses present.

**VIKING Quizalofop Herbicide** does not control sedges or broadleaf weeds.

Grass crops, including wheat, barley, rye, oats, and corn are highly sensitive to **VIKING Quizalofop Herbicide**.

When not in use, keep container closed to prevent evaporation or loss through spillage.

Under certain environmental conditions, minor leaf spotting may occur on soybeans. New growth is unaffected and there is no adverse effect on crop yield.

## BIOLOGICAL ACTIVITY

**VIKING Quizalofop Herbicide** is a systemic herbicide which is rapidly absorbed and readily translocated from the treated foliage to the root systems and growing points of the plant.

Control Symptoms - Treated plants show a reduction in growth and a loss of competitiveness. An early yellowing or browning of the younger plant tissues is followed by a progressive collapse of the remaining foliage. These symptoms will generally be observed in one to three weeks depending on the grass species treated and the environmental conditions.

## 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.

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 (Only for Viking Quizalofop Herbicide used alone): **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when the 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.

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 for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

### 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.

**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 pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. 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. Do not use human flaggers.

**Product specific precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-844-269-3276 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 55 litres per hectare.

**Spray Buffer Zones:**

A spray buffer zone is NOT required for:

- Low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit, or foliage

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	Use rate		Spray Buffer Zones (meters) Required for the Protection of:		
			Freshwater Habitat of Depths		Terrestrial Habitat
			Less than 1 m	Greater than 1m	
Field sprayer	Field crops at 0.38-0.5 L/ha		1	0	3
	Field crops at 0.75 L/ha		1	0	5
Aerial	Field crops at 0.38 L/ha	Fixed wing	1	0	85
		Rotary wing	1	0	70
	Field crops at 0.5 L/ha	Fixed wing	1	0	100
		Rotary wing	1	0	85
	Field crops at 0.75 L/ha	Fixed wing	1	0	150
		Rotary wing	1	0	125

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.

**POSTEMERGENCE APPLICATIONS - CANOLA, FLAX (INCLUDING LOW LINOLENIC ACID VARIETIES), SOYBEANS (INCLUDING VARIETIES DESIGNATED “STS”), SEED ALFALFA, LENTILS AND PEAS (FIELD AND PROCESSING) AND SEEDLING LEGUMES FOR SEED PRODUCTION; FOR USE IN WESTERN CANADA ON CONDIMENT AND OILSEED TYPE ORIENTAL MUSTARD (INCLUDING CANOLA QUALITY *Brassica juncea*), YELLOW AND BROWN MUSTARD; AND CRAMBE:**

Apply the specified rate of **VIKING Quizalofop Herbicide** with VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge® at 5-10 litres per 1000 litres of spray solution, or SURE-MIX™ at 0.5% v/v (0.5 litres per 100 litres of spray solution), at the leaf stage of the grass indicated below:

**USE RATE (GROUND OR AERIAL):**

	<b><u>Weeds Controlled</u></b>	<b><u>Weed Leaf Stage at Application</u></b>
0.38 L/ha	Green foxtail	2 leaf to early tillering
	Volunteer barley	2 leaf to early tillering
	Volunteer corn	2-6 leaf
	Volunteer oats	† 2 leaf to early tillering
	Volunteer wheat	2 leaf to early tillering
	Wild oats	1-5 leaf without tillers

	<b><u>Weeds Controlled</u></b>	<b><u>Weed Leaf Stage at Application</u></b>
0.5 L/ha	Those controlled by 0.38 L/ha and:	
	Barnyard grass	2 leaf to early tillering
	Wild oats	† 1-5 leaf to early tillering (up to two tillers)
	Fall panicum	2 leaf to early tillering
	Old Witchgrass	2 leaf to early tillering
	Proso millet	2 leaf to early tillering
	Yellow foxtail	2 leaf to early tillering
	Foxtail Barley Japanese brome	3 leaf to 4 leaf + 3 tillers 2 – 5 leaf stage

	<b><u>Weeds Suppressed</u></b>	<b><u>Weed Leaf Stage at Application</u></b>
0.5 L/ha	Quackgrass	2-6 leaf

	<b><u>Weeds Controlled</u></b>	<b><u>Weed Leaf Stage at Application</u></b>
0.75 L/ha	Those listed above and: Quackgrass	2-6 leaf

† Best results on volunteer/wild oats if application is made before tillering begins.

Use the higher rate of Merge, VIKING PHC Adjuvant, or VIKING PHC F2 Adjuvant when wild oats or quackgrass are the main target weeds, or under conditions not conducive to good growth.

When using a broadleaf herbicide, other than those registered for tank mixing with **VIKING Quizalofop Herbicide**, wait a minimum of 24 hours after the **VIKING Quizalofop Herbicide** application to apply the broadleaf herbicide or wait 7 days after the broadleaf application to apply **VIKING Quizalofop Herbicide**.

## POSTEMERGENCE APPLICATIONS – CHICKPEAS

For the control of grassy weeds listed on the label, apply **VIKING Quizalofop Herbicide** as a single postemergent spray at a rate of 0.38 L/ha to 0.75 L/ha with a recommended surfactant (VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX) at 5 litres per 1000 litres of spray (0.5% v/v).

Use ground application only. Use in a minimum of 100 litres of water/ha.

Do not apply within 85 days of harvest.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

## TANK MIXES

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Viking Crop Production Partners Inc. at 1-587-743-1029 for information before applying any tank mix that is not specifically recommended on this label.

## TANK MIXTURES WITH BROADLEAF HERBICIDES

### **CONDIMENT AND OILSEED TYPE ORIENTAL MUSTARD (INCLUDING CANOLA QUALITY *Brassica juncea*), AND BROWN MUSTARD IN WESTERN CANADA**

For control of broadleaf weeds and grasses in condiment and oilseed type oriental mustard (including canola quality *Brassica juncea*) and brown mustard, apply a tank mixture of Muster® Toss-N-Go® Herbicide plus **VIKING Quizalofop Herbicide**. Use Muster Toss-N-Go Herbicide at 20 grams per hectare plus 0.38 - 0.5 litres per hectare **VIKING Quizalofop Herbicide** plus VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge at 5-10 litres per 1000 litres of spray solution or SURE-MIX at 0.5% v/v (0.5 litres per 100 litres of spray solution). Refer to the "Mixing Instructions" section of this label for specific mixing instructions.

Additional surfactant is not required when using VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX. For best results, follow the timing restrictions and specific weed control recommendations stated on each product's label. After application follow the sprayer clean-out directions on the Muster Toss-N-Go Herbicide label. Consult the Muster Toss-N-Go Herbicide label for desired use rates, weeds controlled and additional restrictions regarding the use of Muster Toss-N-Go Herbicide.

#### NOTE:

When tank mixed with **VIKING Quizalofop Herbicide** plus SURE-MIX, VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge adjuvant, Muster Toss-N-Go Herbicide will control stinkweed at the 20 grams per hectare rate.

## CANOLA

DO NOT APPLY BY AIR.

For control of broadleaf weeds and grasses in canola (rapeseed), apply a tank mixture of Muster Herbicide plus **VIKING Quizalofop Herbicide**. Use Muster Herbicide at 20 or 30 grams per hectare plus 0.38 - 0.5 litres per hectare **VIKING Quizalofop Herbicide** plus VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge at 5-10

litres per 1000 litres of spray solution, or SURE-MIX at 0.5% v/v (0.5 litres per 100 litres of spray solution). Refer to the "Mixing Instructions" section of this label for specific mixing instructions.

Additional surfactant is not required when using VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge or SURE-MIX. For best results, follow the timing restrictions and specific weed control recommendations stated on each product's label. After application follow the sprayer clean-out directions on the Muster Herbicide label. Consult the Muster Herbicide label for desired use rates, weeds controlled and additional restrictions regarding the use of Muster Herbicide.

**NOTE:**

When tank mixed with **VIKING Quizalofop Herbicide** plus SURE-MIX, VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant or Merge adjuvant, Muster Herbicide will control stinkweed at the 20 grams per hectare rate.

Glufosinate ammonium tolerant Canola Varieties (LibertyLink® Canola)

For control of broadleaf weeds and grasses in glufosinate ammonium tolerant canola (LibertyLink Canola), apply a tank mixture of **VIKING Quizalofop Herbicide** plus VIKING Glufosinate Herbicide or Liberty® 150 SN Herbicide. Use VIKING Glufosinate Herbicide or Liberty 150 SN Herbicide at 1.33 to 4L/ha plus 0.38-0.75 L/ha of **VIKING Quizalofop Herbicide** plus VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge at 5-10 litres per 1000 litres of spray solution, SURE-MIX at 0.5% v/v (0.5 litres per 100 litres of spray solution). Refer to the "Mixing Instructions" section of this label for specific mixing instructions.

Apply a tank mixture of **VIKING Quizalofop Herbicide** plus VIKING Glufosinate Herbicide or Liberty 150 SN Herbicide at cotyledon to early bolting stage of the glufosinate ammonium tolerant Canola.

Additional surfactant is not required when using VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX. For best results, follow the timing restrictions and specific weed control recommendations stated on each product's label. After application, follow the sprayer clean-out directions on the VIKING Glufosinate Herbicide or Liberty 150 SN Herbicide label. Consult the VIKING Glufosinate Herbicide or Liberty 150 SN Herbicide label for desired use rates, weeds controlled and additional restrictions regarding the use of VIKING Glufosinate Herbicide or Liberty 150 SN Herbicide.

## **SOYBEANS**

### **VIKING Quizalofop Herbicide + Classic® Herbicide**

DO NOT APPLY BY AIR.

For the control of Annual Grasses, Common Ragweed, Redroot Pigweed, and Velvetleaf, apply a tank mixture of **VIKING Quizalofop Herbicide** plus Classic Herbicide. Use **VIKING Quizalofop Herbicide** at 0.38 to 0.63 litres per hectare plus Classic Herbicide at 36 grams per hectare. Add SURE-MIX™ at 0.5% v/v (0.5 litres per 100 litres of spray solution).

Use a minimum of 0.5 litre per hectare rate of **VIKING Quizalofop Herbicide** when quackgrass and yellow foxtail are present in the field. The tank-mix of Classic Herbicide and **VIKING Quizalofop Herbicide** may result in reduced control of these two grassy weeds. For more consistent control of yellow foxtail, use 0.63 litre per hectare of **VIKING Quizalofop Herbicide**.

For optimum leaf stage timing of broadleaf weeds, consult the Classic Herbicide label. If leaf stages of the grass and broadleaf weeds do not coincide, a sequential application of the grass and broadleaf herbicides is required to ensure satisfactory control.

### **VIKING Quizalofop Herbicide + Pinnacle® SG Toss-N-Go® Herbicide + Basagran® Forte Herbicide**

DO NOT APPLY BY AIR.

For the control of annual grassy and broadleaf weeds, apply a tank mixture of **VIKING Quizalofop Herbicide** plus Pinnacle SG Toss-N-Go Herbicide plus Basagran® Forte Herbicide. Use **VIKING Quizalofop Herbicide** at 0.63 litres per hectare plus Pinnacle® SG Toss-N-Go® Herbicide at 5.5 - 8.0 grams per hectare plus Basagran® Forte Herbicide at 1.75 - 2.25 litres per hectare. Add SURE-MIX™ at 0.5% v/v (0.5 litres per 100 litres of spray solution). Consult the Pinnacle SG Toss-N-Go Herbicide and Basagran® Forte Herbicide labels for the correct use rate for the broadleaf weeds present. Weeds controlled by 0.63 L/ha of **VIKING Quizalofop Herbicide** in this tank mix are listed on this label at 0.5 L/ha (when **VIKING Quizalofop Herbicide** is used alone). The increase in the application rate of **VIKING Quizalofop Herbicide** in this tank mix is required for consistent grassy weed control.

For optimum leaf stage timing of broadleaf weeds, consult the Pinnacle SG Toss-N-Go Herbicide and Basagran Forte Herbicide labels. If leaf stages of the grass and broadleaf weeds do not coincide, a sequential application of the grass and broadleaf herbicides is required to ensure satisfactory control. Do not apply before the crop has 1 - 2 full trifoliolate leaves.

DO NOT FREEZE.

**VIKING Quizalofop Herbicide + Pinnacle SG Toss-N-Go Herbicide**

DO NOT APPLY BY AIR.

For the control of annual grassy and specific broadleaf weeds, apply a tank mixture of **VIKING Quizalofop Herbicide + Pinnacle SG Toss-N-Go Herbicide**. Use **VIKING Quizalofop Herbicide** at 0.5 litres per hectare plus Pinnacle SG Toss-N-Go Herbicide at 5.5 - 8.0 grams per hectare. Add SURE-MIX at 0.5% v/v (0.5 litres per 100 litres of spray solution). Consult the Pinnacle SG Toss-N-Go Herbicide label for the correct use rate for the broadleaf weeds present.

Consult the timing section of this label for the correct timing of application to grassy weeds. For optimum leaf stage timing of broadleaf weeds, consult the Pinnacle SG Toss-N-Go Herbicide label. If leaf stages of the grass and broadleaf weeds do not coincide, a sequential application of the grass and broadleaf herbicides is required to ensure satisfactory control. Do not apply before the crop has 1-2 full trifoliolate leaves.

Velvetleaf control may be reduced with a single tank mix application. For optimum control, make separate applications of **VIKING Quizalofop Herbicide** and Pinnacle SG Toss-N-Go Herbicides.

DO NOT FREEZE.

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Viking Crop Production Partners Inc. under the User Requested Minor Use Label Expansion program. For these uses, Viking Crop Production Partners Inc. 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.

**FOR SALE FOR USE ON SEEDLING LEGUMES FOR SEED PRODUCTION ONLY:**

For bird's-foot trefoil, alsike, red, white and sweet clover, and sainfoin, make a postemergent broadcast application of:

<b>VIKING Quizalofop Herbicide</b>	0.5-0.75 litres/hectare
plus	
<b>SURE-MIX</b>	0.5% (0.5 litres per 100 litres of spray solution)
<p>DO NOT graze or cut for hay in the year of treatment.</p> <p>Refer to the weed control chart printed in the Directions for Use section of this label for application rates to control quackgrass and annual grass species. Application to the above species should be made before crop canopy closes.</p> <p>Make only one application per growing season. Apply the spray mixture with ground equipment only. Use a properly calibrated sprayer that will provide thorough coverage of the weeds with the spray solution. Apply a minimum of 100 litres/ha of total spray volume.</p>	
<b>FOR SALE FOR USE ON ESTABLISHED CREEPING RED FESCUE FOR SEED PRODUCTION ONLY</b>	
For postemergent broadleaf and grassy weed control:	
<b>VIKING Quizalofop Herbicide</b>	0.5–0.75 litres/hectare
Plus	
Ally <sup>®</sup> Herbicide	7.5 grams/hectare
Plus	
<b>SURE-MIX</b>	5 litres per 1000 litres spray solution

<p>This tank mix will control all label weeds listed on this label and the Ally Herbicide label.</p> <p>Apply <b>VIKING Quizalofop Herbicide</b> + Ally Herbicide tank mixture post emergent to the first main flush of actively growing weeds, when established creeping red fescue is in the 2 leaf to flag leaf (shot blade) stage. Apply before the crop canopy is dense enough to prevent thorough coverage of the weeds.</p> <p>Apply with ground equipment only. Make only one application per growing season.</p> <p>Refer to other sections of this label for additional application and/or use precaution instructions.</p>	
<b>FOR SALE FOR USE ON SEEDLING OR ESTABLISHED CREEPING RED FESCUE FOR SEED PRODUCTION ONLY:</b>	
For control of quackgrass and annual grassy weeds, make a postemergent broadcast application of:	
<b>VIKING Quizalofop Herbicide</b>	0.5 - 0.75 litres/hectare
Plus	
(SURE-MIX)	5 litres per 1000 litres spray solution

Do not graze or cut treated established red fescue for feed or hay in the year of treatment.

Apply when quackgrass is in the 2-6-leaf stage and when annual grassy weeds are from the 2-leaf stage to early tillering. Application to the above species should be made before crop canopy closes. Refer to other sections of this label for a list of grassy weeds controlled as well as the recommended **VIKING Quizalofop Herbicide** rates depending on the leaf stage of quackgrass or the annual grass species that are present.

Make only one application per growing season. Apply the spray mixture with ground equipment only. Use a properly calibrated sprayer that will provide thorough coverage of the weeds with the spray solution. Apply a minimum of 100 litres/ha of total spray volume.

**FOR SALE FOR USE ON ESTABLISHED RED AND ALSIKE CLOVERS FOR SEED PRODUCTION ONLY.**

Refer to the weed control chart printed in the Directions for Use section of this label for application rates, adjuvant and rates and appropriate stages to control quackgrass, annual grass species, and volunteer cereals. Application should be made before crop canopy closes.

Make only one application per growing season. Apply the spray mixture with ground equipment only. Use a properly calibrated sprayer that will provide thorough coverage of the weeds with the spray solution. Apply a minimum of 100 litres/ha of total spray volume.

<b>VIKING Quizalofop Herbicide</b>	0.38 – 0.75 L/ha
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Plus

SURE-MIX, VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge 0.5 % v/v (5 L /1000 L spray solution)

DO NOT graze or cut for hay in the year of treatment.

DO NOT apply within 30 days of harvest.

**FOR SALE FOR USE ON SNAP BEANS**

For control of annual grasses apply:

<b>VIKING Quizalofop Herbicide</b>	0.38 – 0.75 L/ha
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Plus

VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge	5 - 10 litres per 1000 litres of spray solution
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Or

SURE-MIX	0.5% (0.5 litres per 100 litres of spray solution).
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Apply one application per year at the 2- to 5-leaf stage of annual grasses and up to the 3-leaf stage of quackgrass. Do not harvest until 30 days after application. Apply the spray mixture with ground equipment only.

**FOR SALE FOR USE ON SUGARBEETS IN CANADA**

Apply **VIKING Quizalofop Herbicide** as a post emergent broadcast application to small, emerged grassy weeds between the 2 leaf to early tillering leaf stage. Application to grassy weeds should be made before the crop canopy closes to maximize spray coverage.

To control annual grasses and volunteer cereals, apply:

<b>VIKING Quizalofop Herbicide</b>	0.38 L/ha
Plus	
SURE-MIX	0.5% (0.5 litres per 100 litres of spray solution).

If a second flush of annual grasses or volunteer cereals is observed, apply an additional (sequential) application of **VIKING Quizalofop Herbicide** at 0.38 L /ha + recommended adjuvant.

To control annual grasses, volunteer cereals and quackgrass apply **VIKING Quizalofop Herbicide** at 0.75 L/ha + recommended adjuvant.

Do not exceed an accumulative, seasonal use rate of 0.75 L/ha of **VIKING Quizalofop Herbicide** per year.

Apply the spray mixture with ground equipment only. Use a properly calibrated sprayer that will provide thorough coverage of the weeds with the spray solution. The minimal re-treatment interval (RTI) is 14 days. Do not apply to sugar beets within 60-80 days of harvest.

For a complete list of grassy weeds, as well as additional application and/or use precaution instructions please refer to other sections of this label.

**FOR SALE FOR USE ON ALL DRY COMMON BEANS OF THE SPECIES *PHASEOLUS VULGARIS* INCLUDING BUT NOT LIMITED TO ALL DRY COMMON BEAN TYPES LISTED ON THIS LABEL.**

For the control of grassy weeds listed on the label as well as volunteer cereals, corn, and quackgrass, apply **VIKING Quizalofop Herbicide** as a single post-emergent spray at a rate of 0.38 L/ha to 0.75 L/ha with a recommended surfactant (VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX) at 5 litres per 1000 litres of spray (0.5% v/v). See "Mixing Instructions" section of the **VIKING Quizalofop Herbicide** label booklet.

Dry common bean varieties may vary in their tolerance to herbicides, including **VIKING Quizalofop Herbicide**. The tolerance of some dry common bean varieties listed on this label has been confirmed when **VIKING Quizalofop Herbicide** is applied as directed. Since not all dry common bean varieties have been tested for tolerance to **VIKING Quizalofop Herbicide**, first use of **VIKING Quizalofop Herbicide** should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on the tolerance of specific varieties of dry common beans to **VIKING Quizalofop Herbicide**.

Do not apply within 30 days of harvest.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.



**FOR SALE FOR USE IN WESTERN CANADA ON PINTO, NAVY, GREAT NORTHERN, PINK AND SMALL RED BEANS**

For the control of grassy weeds listed on the label, apply **VIKING Quizalofop Herbicide** as a single postemergent spray at a rate of 0.38 L/ha to 0.75 L/ha with a recommended surfactant (VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX) at 5 litres per 1000 litres of spray (0.5% v/v). See “Mixing Instructions” section of the **VIKING Quizalofop Herbicide** label booklet.

Use ground application only. Use in a minimum of 100 litres of water/ha.

Do not apply within 30 days of harvest.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

**FOR SALE FOR USE IN SOUTHERN ONTARIO ON WHITE, WHITE AND RED KIDNEY, CRANBERRY, BLACK, BROWN AND YELLOW EYE, LIMA, MUNG, OTEBO AND ADZUKI BEANS**

For the control of grassy weeds listed on the label as well as volunteer cereals, corn, and quackgrass, apply **VIKING Quizalofop Herbicide** as a single post-emergent spray at a rate of 0.375 L/ha to 0.75 L/ha with a recommended surfactant (VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX) at 5 litres per 1000 litres of spray (0.5% v/v). See “Mixing Instructions” section of the **VIKING Quizalofop Herbicide** label booklet.

Apply at the 2-5-leaf stage of the annual grasses.

Apply the spray mixture with ground equipment only.

Do not apply within 30 days of harvest.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

**FOR SALE FOR USE ON ETHIOPIAN MUSTARD (*BRASSICA CARINATA*)**

Apply the specified rate of **VIKING Quizalofop Herbicide** with VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge at 5-10 litres per 1000 litres of spray solution, SURE-MIX at 0.5% v/v (0.5 litres per 100 litres of spray solution) at the leaf stage of the grass indicated below:

**USE RATE (GROUND OR AERIAL):**

	<b>Weeds Controlled</b>	<b>Weed Leaf Stage At Application</b>
0.38 L/ha	Green foxtail	2 leaf to early tillering
	Volunteer barley	2 leaf to early tillering
	Volunteer corn	2-6 leaf
	Volunteer oats	† 2 leaf to early tillering
	Volunteer wheat	2 leaf to early tillering
	Wild oats	1-5 leaf without tillers
	0.5 L/ha	<b>Weeds Controlled</b>
Those controlled by 0.38 L/ha and:		
Barnyard grass		2 leaf to early tillering
Wild oats		† 1-5 leaf to early tillering (up to two tillers)
Fall panicum		2 leaf to early tillering
Old Witchgrass		2 leaf to early tillering
Proso millet		2 leaf to early tillering
Yellow foxtail		2 leaf to early tillering
Foxtail barley		3 leaf to 4 leaf + 3 tillers
Quackgrass ( <b>Suppression only</b> )	2-6 leaf	

† Best results on volunteer/wild oats if application is made before tillering begins.  
† Use the higher rate of VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, or Merge when wild oats or quackgrass are the main target weeds, or under conditions not conducive to good growth.

DO NOT apply within 64 days of harvest.

#### **FOR SALE FOR USE ON DRY FABA BEANS (DRY BROAD BEANS) AND NARROW LEAF LUPIN**

For the control of grassy weeds listed on the label, apply **VIKING Quizalofop Herbicide** as a single postemergent spray at a rate of 0.38 L/ha to 0.75 L/ha with SURE-MIX at 5 litres per 1000 litres of spray (0.5% v/v). See “Mixing Instructions” section of the **VIKING Quizalofop Herbicide** label booklet.

**Use ground application only. Use 100-400 litres of water/ha.**

**Do not apply within 30 days of harvest.**

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

#### **TANKMIX IN WESTERN CANADA:**

#### **FOR SALE FOR USE ON PINTO, PINK, GREAT NORTHERN AND SMALL RED BEANS IN WESTERN CANADA**

For the control of volunteer cereals, wild oats, and broadleaf weeds listed on the VIKING Bentazon Herbicide or Basagran Herbicide label, apply a post-emergent tankmix (at the 1-3 trifoliolate stage of beans) of **VIKING Quizalofop Herbicide** at a rate of 0.63 L/ha with VIKING Bentazon Herbicide or Basagran Herbicide at a rate of 1.75-2.25 L/ha.

Add a recommended surfactant (SURE-MIX) at 5 litres per 1000 litres of spray (0.5% v/v). See “Mixing Instructions” section of the **VIKING Quizalofop Herbicide** label booklet.

Do not apply within 65 days of harvest. Make only one application per growing season.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

#### **FOR SALE FOR USE IN ONTARIO AND QUEBEC ON RUTABAGAS**

For the control of grassy weeds listed on the label, corn, and quackgrass, apply **VIKING Quizalofop Herbicide** as a single post-emergent spray at a rate of 0.375 L/ha to 0.75 L/ha with a recommended surfactant (VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX) at 5 litres per 1000 litres of spray (0.5% v/v). See “Mixing Instructions” section of the **VIKING Quizalofop Herbicide** label booklet.

Apply at the 2-5-leaf stage of the annual grasses.

Apply the spray mixture with ground equipment only.

Do not apply within 30 days of harvest.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

#### **FOR SALE FOR USE ON INDUSTRIAL HEMP GROWN FOR FIBRE, SEED AND OIL**

For the control of weeds listed on the label, apply **VIKING Quizalofop Herbicide** as a single post-emergent spray at a rate of 0.38 L/ha to 0.75 L/ha with SURE-MIX adjuvant at a rate of 5L per 1,000 L of solution (0.5% v/v). See "Mixing Instructions" section of the **VIKING Quizalofop Herbicide** label booklet.

Make one application per year when the crop is at the 2-6 crop leaf stage (6-25 cm in height).

Apply the spray mixture with ground equipment only

Use in a minimum of 100 litres of water/ha with a spray pressure of 210-275 kPa.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

For industrial hemp grown for fibre, seed and oil do not apply within 73 days of harvest.

#### **FOR SALE FOR USE IN ONTARIO ON SOYBEANS ONLY**

For the control of Long-spined Sandbur, apply **VIKING Quizalofop Herbicide** as a single post-emergent spray at a rate of 0.38 L/ha (36 g a.i./ha) at the 2 leaf to tillering stage of Long-spined Sandbur. **VIKING Quizalofop Herbicide** must be applied with an adjuvant such as SURE-MIX at a rate of 5 litres per 1,000 litres of spray solution (0.5 % v/v). See "Mixing Instructions" section of the **VIKING Quizalofop Herbicide** label booklet.

Do not apply to soybeans within 80 days of harvest.

Use ground application only.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

#### **FOR SALE FOR USE IN CANADA ON CAMELINA SATIVA**

DO NOT APPLY BY AIR.

For control or suppression of the weeds on this label, make one application of 0.38 – 0.75 L/ha plus 0.5 % v/v VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX. Use a minimum spray volume of 100 L/ha.

DO NOT apply within 64 days of harvest.

DO NOT use open cab equipment if treating more than 290 ha/day. If treating more than 290 ha/day, closed cab equipment, long-sleeved shirt, long pants, socks, and shoes are required for application.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days following application for scouting activities in camelina.

**FOR SALE FOR USE ON GROUP 9 – CUCURBIT VEGETABLES including:**

citron melon; cucumber; gherkin; edible gourd (hyotan, cucuzza); Chinese okra; Chinese cucumber; muskmelon hybrids and or cultivars of Cucumis melo including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon; pumpkin; summer squash including crookneck squash, scallop squash, straightneck squash, vegetable marrow, and zucchini; winter squash including butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash; watermelon including hybrids and/or varieties of Citrullus lanatus.

DO NOT APPLY BY AIR.

For the control of grassy weeds listed on the label as well as volunteer cereals, corn, and quackgrass, apply **VIKING Quizalofop Herbicide** as a single post-emergent spray at a rate of 0.38 L/ha to 0.75 L/ha with a recommended surfactant (VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX) at 5 litres per 1000 litres of spray (0.5% v/v). See “Mixing Instructions” section of the **VIKING Quizalofop Herbicide** label booklet.

Do not apply within 30 days of harvest.

Make one application per year when the crop is at the 2-6 leaf stage.

Apply at the labelled leaf stage of grassy weeds.

Use ground equipment only. Use in a minimum of 100 litres of water/ha.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precaution instructions, and/or mixing instructions.

**FOR SALE FOR USE ON SASKATOON BERRIES**

For the control of grassy weeds listed on the label, apply **VIKING Quizalofop Herbicide** as a single postemergent broadcast spray directed at the ground, at a rate of 0.38 L/ha to 0.75 L/ha with a recommended surfactant at 5 litres per 1000 litres of spray (0.5% v/v). See “Mixing instructions” section of the **VIKING Quizalofop Herbicide** label.

Use ground application only. Use a directed spray application to minimize the amount of spray coming into contact with the Saskatoon berries. Use a minimum of 100 litres of water/ha.

Do not apply within 41 days of harvest.

Refer to the appropriate sections of the **VIKING Quizalofop Herbicide** label booklet for a complete list of grassy weeds, their stages of control, as well as additional application and/or use precautions instructions, and/or mixing instructions.

## **SPRAY PREPARATION:**

### **GROUND APPLICATION:**

#### **EQUIPMENT - SPRAY VOLUME**

Apply the spray mixture with ground equipment only. Use a properly calibrated sprayer that will provide thorough coverage of the weeds with the spray. Apply a minimum of 100 litres per hectare total spray volume. Use flat fan nozzles. **DO NOT USE FLOOD JET NOZZLES.**

Use 50 mesh screens or larger. A spray pressure of 210-275 kPa is recommended. Under heavy weed pressure, use increased volumes up to 400 litres total spray volume per hectare.

Avoid overlapping. Shut off spray booms while starting, turning, slowing or stopping to prevent over application.

Use spray preparation of **VIKING Quizalofop Herbicide** within 24 hours or product degradation may occur. If spray preparation is left without agitation, thoroughly agitate before using.

Do not apply when environmental conditions such as wind speed, temperature, relative humidity, etc. are favourable for drift to occur.

Do not apply to terrain where there is a potential for surface run-off to enter aquatic systems.

#### **NOTE:**

Extreme care must be taken to prevent drift to desirable plants or non-target agricultural land.

## **MIXING INSTRUCTIONS:**

1. Make sure that spray tank is thoroughly cleaned before mixing.
2. Fill tank half full with water. **KEEP AGITATOR RUNNING.**
3. If tank mixing **VIKING Quizalofop Herbicide** with another herbicide, use the following sequence:
  - a) Muster Herbicide or Pinnacle SG Toss-N-Go Herbicide or Classic Herbicide.
  - b) Viking Bentazon Herbicide or Basagran\* Forte Herbicide
  - c) VIKING Glufosinate Herbicide or Liberty 150 SN Herbicide
  - d) **VIKING Quizalofop Herbicide**
  - e) Slowly add VIKING PHC Adjuvant, VIKING PHC F2 Adjuvant, Merge or SURE-MIX

Ensure that the herbicide is completely mixed before proceeding to the next step.

4. Add the rest of the required water to the tank. Mix well before applying to the crop.

On repeat tank loads, ensure that the amount of spray solution left in the tank from the previous load is less than 10% of volume about to be mixed.

Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

## **SPRAYER CLEAN-OUT:**

Thoroughly clean all traces of **VIKING Quizalofop Herbicide** from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Failure to thoroughly clean the equipment may result in injury to subsequently sprayed grass crops.

#### **USE PRECAUTIONS:**

- Do not apply to soybeans within 80 days of harvest.
- Do not apply to canola within 64 days of harvest.
- Do not apply to Oriental mustard (including canola quality brassica juncea) (condiment and oilseed type) (Western Canada only), yellow and brown mustard, and crambe within 64 days of harvest.
- Do not apply to flax within 82 days of harvest.
- Do not apply to lentils or peas (field and processing) within 65 days of harvest.
- Do not apply to chickpeas within 85 days of harvest.
- Do not apply **VIKING Quizalofop Herbicide** to plants stressed by severe conditions such as drought, low fertility, or cool weather as control of weeds may be reduced.
- Do not apply **VIKING Quizalofop Herbicide** to crops stressed by severe conditions such as drought, low fertility, saline soils, water logged soils (soils at or near field capacity), disease or insect damage as crop injury may result.
- Drought, disease or insect damage following application may also result in crop injury.
- Rainfall within 1 hour of application may reduce effectiveness of the spray.
- Avoid drift to other crops and non-target areas. Grass crops such as corn and wheat etc. are highly sensitive to **VIKING Quizalofop Herbicide**.

#### **CAUTION:**

Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.

#### **RESISTANCE-MANAGEMENT RECOMMENDATIONS:**

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

To delay herbicide resistance:

- Where possible, rotate the use of **VIKING Quizalofop 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 your Viking Crop Production Partners Inc. representative at 1-587-743-1029 for further information.

**NOTICE TO USER:**

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

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