

Container

<b>GROUP</b>	<b>1</b>	<b>HERBICIDE</b>
--------------	----------	------------------

## **Caziva® Ultra Q**

HERBICIDE

EMULSIFIABLE CONCENTRATE

FOR SALE FOR USE ON SUNFLOWERS, SOYBEANS, LENTILS, PEAS (FIELD) AND  
DRY FABA BEANS (DRY BROAD BEANS)

**COMMERCIAL (AGRICULTURAL)**

**ACTIVE INGREDIENT:** Quizalofop-p-ethyl ..... 96 g/L

**REGISTRATION NO. 34282**

**PEST CONTROL PRODUCTS ACT**

DANGER – CORROSIVE TO EYES  
SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT,  
1-800-454-2673**

**NET CONTENTS:** 1 L – 1500 L

BASF Canada Inc.  
5025 Creekbank Road  
Building A, 2nd Floor  
Mississauga, Ontario L4W 0B6  
1-877-371-2273

CAZIVA is a registered trade-mark of BASF SE, used with permission by BASF Canada 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 goggles or face shield, chemical resistant gloves and coveralls over long-sleeved shirt and long pants during mixing, loading, clean-up and repair.
- For worker protection during application, wear a hat, chemical resistant gloves and coveralls over long-sleeved shirt and long pants. Gloves are not required during application within a closed cab.
- 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 when the potential for drift to areas of human habitation or 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 12 hours.

## ENVIRONMENTAL PRECAUTIONS

This product contains a petroleum distillate, which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

TOXIC to non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. 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 product in original container only, away from fertilizer, seed, 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. 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.

### **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 Containers that can be Refilled for the User by the Distributor/Dealer**

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 regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

#### **NOTICE TO USER**

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

Booklet

<b>GROUP</b>	<b>1</b>	<b>HERBICIDE</b>
--------------	----------	------------------

## **Caziva® Ultra Q**

HERBICIDE

EMULSIFIABLE CONCENTRATE

FOR SALE FOR USE ON SUNFLOWERS, SOYBEANS, LENTILS, PEAS (FIELD) AND  
DRY FABA BEANS (DRY BROAD BEANS)

**COMMERCIAL (AGRICULTURAL)**

**ACTIVE INGREDIENT:** Quizalofop-p-ethyl ..... 96 g/L

**REGISTRATION NO. 34282**

**PEST CONTROL PRODUCTS ACT**

DANGER – CORROSIVE TO EYES  
SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT,  
1-800-454-2673**

**NET CONTENTS:** 1 L – 1500 L

BASF Canada Inc.  
5025 Creekbank Road  
Building A, 2nd Floor  
Mississauga, Ontario L4W 0B6  
1-877-371-2273

CAZIVA is a registered trade-mark of BASF SE, used with permission by BASF Canada 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 goggles or face shield, chemical resistant gloves and coveralls over long-sleeved shirt and long pants during mixing, loading, clean up and repair.
- For worker protection during application, wear a hat, chemical resistant gloves and coveralls over long-sleeved shirt and long pants. Gloves are not required during application within a closed cab.
- 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 when the potential for drift to areas of human habitation or 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 12 hours.

## ENVIRONMENTAL PRECAUTIONS

This product contains a petroleum distillate, which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

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

### **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 **Caziva Ultra Q** as accidental spills or splashes may harm the finish on painted equipment.

DO NOT SUBJECT TO TEMPERATURES BELOW 0°C.

### **GENERAL INFORMATION**

**Caziva Ultra Q** is a selective postemergence herbicide for the control of annual and perennial grasses in sunflowers, soybeans, lentils, peas (field) and faba beans. Recommended rates and timing for **Caziva Ultra Q** application will provide control of the emerged grasses present.

**Caziva Ultra Q** does not control sedges or broadleaf weeds.

Grass crops, including wheat, barley, rye, oats, and corn are highly sensitive to **Caziva Ultra Q**. 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

**Caziva Ultra Q** 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

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

### Buffer Zones

Uses of the following spray methods or equipment DO NOT require a buffer zone: hand-held or backpack sprayer and spot treatment.

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

Method of application	Use rate	Buffer Zones (meters) Required for the Protection of:		
		Aquatic Habitat of Depths		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field sprayer	Field crops up to 0.75 L/ha	1	0	3

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



**POST-EMERGENCE APPLICATIONS – SUNFLOWERS (2-8 LEAF), SOYBEANS, LENTILS AND PEAS (FIELD)**

Apply the specified rate of **Caziva Ultra Q** with MERGE® Adjuvant at 5-10 litres per 1000 litres of spray solution at the leaf stage of the grass indicated below.

**USE RATE**

0.38 L/ha	<u>Weeds Controlled</u>	<u>Weed Leaf Stage at Application</u>
	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	<u>Weeds Controlled</u>	<u>Weed Leaf Stage at Application</u>
	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
	Downy brome	2 – 5 leaf stage
	Japanese brome	2 – 5 leaf stage

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

0.75 L/ha	<u>Weeds Controlled</u>	<u>Weed Leaf Stage at Application</u>
	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 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 **Caziva Ultra Q**, wait a minimum of 24 hours after the **Caziva Ultra Q** application to apply the broadleaf herbicide or wait 7 days after the broadleaf application to apply **Caziva Ultra Q**.

## POST-EMERGENCE APPLICATIONS – CHICKPEAS

For the control of grassy weeds listed on the label, apply **Caziva Ultra Q** as a single post-emergent spray at a rate of 0.38 L/ha to 0.75 L/ha with MERGE Adjuvant 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 **Caziva Ultra Q** 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.

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.

### **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 BASF Canada under the User Requested Minor Use Label Expansion program. For these uses, BASF Canada 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 DRY FABA BEANS (DRY BROAD BEANS)**

For the control of grassy weeds listed on the label, apply **Caziva Ultra Q** as a single post-emergent spray at a rate of 0.38 L/ha to 0.75 L/ha with SURE-MIX™ or IPCO MSO Adjuvant at 5 litres per 1000 litres of spray (0.5% v/v). See “Mixing Instructions” section of the **Caziva Ultra Q** 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 **Caziva Ultra Q** 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.

## 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 **Caziva Ultra Q** 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 **Caziva Ultra Q** with another herbicide, use the following sequence:
  - (a) Other Herbicide
  - (b) **Caziva Ultra Q**
  - (c) Slowly add MERGE, SURE-MIX™ or IPCO MSO Adjuvant.

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.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact BASF at 1-877-371-2273 or at [www.agsolutions.ca](http://www.agsolutions.ca) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

## SPRAYER CLEAN-OUT

Thoroughly clean all traces of **Caziva Ultra Q** 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 lentils or peas (field) within 65 days of harvest.
- Do not apply to sunflowers within 60 days of harvest.
- Do not apply **Caziva Ultra Q** to plants stressed by severe conditions such as drought, low fertility, or cool weather as control of weeds may be reduced.
- Do not apply **Caziva Ultra Q** 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 **Caziva Ultra Q**.
- Do not contaminate irrigation water.

## 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, **Caziva Ultra Q** is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to **Caziva Ultra Q** 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 **Caziva Ultra Q** 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 BASF at 1-877-371-2273 or at [www.agsolutions.ca](http://www.agsolutions.ca).

## **STORAGE**

Store product in original container only, away from fertilizer, seed, 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. 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.

**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 Containers that can be Refilled for the User by the Distributor/Dealer**

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 regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER**

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

MERGE is a registered trade-mark of BASF Canada Inc.

All other products named are trademarks and registered trademarks of their respective companies.