

**IMPORTANT NOTICE**  
**CANADIAN LABEL— *It is a violation of Canadian law to use this product in Canada in a manner inconsistent with its Canadian labelling.***

**GROUP    14    HERBICIDE**

**REFLEX®**  
**Liquid Herbicide**

AGRICULTURAL

HERBICIDE

For selective pre- and post-emergence broadleaf weed control in soybeans, dry edible beans, snap common beans (yellow and green), dry shelled peas, succulent peas (shelled and edible-podded), cucumber, potatoes and perennial strawberries.

**FOR SALE FOR USE IN EASTERN CANADA AND FOR SOYBEANS AND DRY EDIBLE BEANS ONLY IN THE RED RIVER VALLEY OF MANITOBA ONLY.**

**FOR USE ON CUCUMBER AND PERENNIAL STRAWBERRIES IN EASTERN CANADA AND BRITISH COLUMBIA ONLY.**

**FOR USE ON POTATOES, DRY SHELLED, SUCCULENT SHELLED AND EDIBLE PODDED PEAS IN EASTERN CANADA ONLY.**

**GUARANTEE:**

Fomesafen .....240 g/litre  
(as sodium salt)

Contains 1,2-benzisothiazolin-3-one at 0.02% or 1,2-benzisothiazolin-3-one at 0.048% and 2-bromo-2-nitropropane-1,3-diol at 0.03% as preservatives.

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**DANGER - CORROSIVE: CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF  
SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.**

REGISTRATION NO. **24779**  
PEST CONTROL PRODUCTS ACT

**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario N1G 4Z3  
Telephone: 1-877-964-3682  
Pamphlet

## 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. The user assumes the risk to persons or property that arises from any such use of this product.

## FIRST AID

**IN CASE OF POISONING, IMMEDIATELY** contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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.

**GENERAL:** Never give anything by mouth to an unconscious person. Remove person to a safe and uncontaminated area. Seek medical attention **IMMEDIATELY** if irritation persists or is severe.

## TOXICOLOGICAL INFORMATION

There is no specific antidote for REFLEX® Liquid Herbicide. Treat symptomatically.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN

May be harmful if swallowed. May cause skin irritation. Do not get on skin or in eyes. Do not wear contact lenses when using chemicals.

**CORROSIVE** to the eye. **DO NOT** get in eyes.

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

Wear boots with socks, a long sleeve shirt and long pants or coveralls, chemical-resistant gloves

and protective eyewear when handling the concentrate and during application (including mixing, loading, and spraying activities). Wash the outside of the gloves before removing. Wash splashes from skin and eyes **IMMEDIATELY** with plenty of water. Wash all contaminated clothing separate from household laundry and prior to reuse. Wear chemical-resistant gloves if contact with spray nozzles is necessary. Avoid working in spray mist. Avoid all drift or contact with other vegetation. After spraying, wash hands and shower thoroughly with soap and water. While using product, do not eat, drink or handle tobacco. Wash hands and exposed skin with soap and water thoroughly before eating, drinking, handling tobacco, applying cosmetics or using the toilet. Keep product away from food, drink and animal feed. Store product in original container, tightly closed and in a safe place.

**DO NOT** contaminate food and feed, irrigation and drinking water supplies, and aquatic habitat (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) by cleaning of equipment or disposal of wastes.

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

For tank mixes, consult the label(s) of the tank mix partner(s), and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

#### **DO NOT APPLY BY AIR.**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

#### **STORAGE CONDITIONS**

Always store product in original container with top closed in a cool, dry place. Avoid contamination of seed, feed, fertilizers and foodstuffs.

#### **ENVIRONMENTAL PRECAUTIONS**

Overspray or drift to important wildlife habitats such as shelter belts, wetlands, woodlots, vegetated ditch, pond and lake banks and other covers on the edges of fields should be avoided. Leave a 15 metre buffer zone between the last spray swath and the edge of any of these habitats. A 15 m buffer zone should be observed adjacent to aquatic habitats, such as streams, ponds, rivers and lakes.

Fomesafen has certain properties and characteristics in common with chemicals that have been detected in groundwater (high solubility in water and low adsorption to soil). The use of this chemical may result in it leaching to groundwater, particularly in areas where soils are permeable (sandy soil) and/or the depth to the water table is shallow.

#### **DISPOSAL**

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.

**CONTAINER DISPOSAL:**  
**FOR DISPOSAL OF PLASTIC JUGS:**

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 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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

**PRODUCT INFORMATION**

REFLEX Liquid Herbicide is a selective pre-and post-emergence herbicide for control of many broadleaf weeds in soybeans, dry edible beans and snap common beans (yellow and green), dry shelled peas, succulent peas (shelled and edible-podded), cucumber, potatoes or perennial strawberries. These crops are tolerant to REFLEX Liquid Herbicide when applied at the labelled growth stages and suggested rates provided the crops have not been subjected to certain stress conditions such as cold temperatures, excessive moisture, drought, injury from hail or from prior herbicide applications. Avoid application to crops which may have been subjected to such stress conditions. Some bronzing, crinkling or spotting of soybean, dry edible bean and snap common bean leaves may occur, but plants normally outgrow these effects with no adverse effects on maturity or crop yield.

REFLEX Liquid Herbicide activity is unaffected by rain falling 4 hours after application.

**DIRECTIONS FOR USE**

Do not treat any crop other than soybeans, dry edible beans snap common beans (yellow and green), dry shelled peas, succulent peas (shelled and edible-podded), cucumber, potatoes or perennial strawberries.

Apply using ground equipment only.

**DO NOT APPLY BY AIR.**

Do not apply when wind velocity is greater than 15 km/h.

Do not apply REFLEX Liquid Herbicide to any field more often than once every two years.

### TIMING OF APPLICATION

Soybeans, dry edible beans and snap common beans are tolerant to REFLEX Liquid Herbicide application made to plants in the 1 to 2 trifoliolate leaf stage. Do not use before the 1st trifoliolate leaf stage or increased risk of crop injury may result.

REFLEX Liquid Herbicide provides pre- and post-emergent weed control. Post emergent applications should be made when the main flush of weeds is complete and the majority of the weeds are at the cotyledon to 3 or 4 true leaf stage and actively growing. REFLEX Liquid Herbicide will control the weeds listed in the following table up to the specified maximum number of leaves. Later applications may result in poor weed control due to advanced weed growth.

WEEDS CONTROLLED	Maximum Number of Leaves
Redroot pigweed <sup>1</sup>	4
Common ragweed <sup>1</sup>	4
Wild mustard	4
Velvetleaf <sup>2</sup>	3
Lady's-thumb	4
Lamb's-quarters <sup>2</sup>	3
Eastern black nightshade	4
Cocklebur	4
Volunteer canola	4

<sup>1</sup>REFLEX Liquid Herbicide also provides pre-emergent control of these weeds. <sup>2</sup>Suppression only

### APPLICATION RATES

REFLEX Liquid Herbicide acts primarily by contact, therefore, it is essential to achieve good coverage and ample penetration of the foliage in order to obtain acceptable weed control.

Do not apply more than once per season and to any field only every second year.

Apply REFLEX Liquid Herbicide in a minimum of 200 L of water per hectare and at a pressure of 245 kPa. Increased water volume (350 L) and pressure (420 kPa) are recommended for fields with heavy weed densities and for weeds which are at the upper limit of their recommended stage for treatment. Do not increase the rate of REFLEX Liquid Herbicide. Do not apply at pressures which exceed 420 kPa.

<b>DRY EDIBLE BEANS OR SNAP COMMON BEANS (YELLOW AND GREEN)</b> Eastern Canada ONLY	
<b>CROP APPLICATION TIMING</b>	1 -2 trifoliolate leaf
<b>RATE/HA REFLEX LIQUID HERBICIDE</b>	1.0 L
<b>RATE ADJUVANT</b>	0.1% v/v AGRAL® 90 or Citowett®
<b>REFLEX LIQUID HERBICIDE PLUS VENTURE® L HERBICIDE</b>	<p>REFLEX Liquid Herbicide alone will not control grass weeds. For control of both grass and broadleaf weeds REFLEX Liquid Herbicide can be tank mixed with VENTURE L Herbicide. Apply REFLEX Liquid Herbicide at 1.0 L/ha with VENTURE L Herbicide at 0.6 L/ha - 2.0 L/ha for control of broadleaf weeds listed on the REFLEX Liquid Herbicide label plus other weeds which appear on the VENTURE L Herbicide label as being controlled with the rate specified. Add AGRAL 90 at 0.1% v/v of spray solution. Consult the VENTURE L Herbicide label for use directions, weeds controlled, and additional precautions and restrictions. Do not apply this tank mix later than the second trifoliolate leaf stage of the crop.</p> <p>Dry edible bean varieties may vary in their tolerance to herbicides, including the tank mix of REFLEX Liquid Herbicide plus VENTURE L Herbicide. Since not all dry common bean varieties have been tested for tolerance to the tank mix of REFLEX Liquid Herbicide plus VENTURE L Herbicide, first use of either should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice.</p>

<b>SOYBEANS</b> Eastern Canada ONLY	
<b>CROP APPLICATION TIMING</b>	1 -2 trifoliolate leaf
<b>RATE/HA REFLEX LIQUID HERBICIDE</b>	1.0 L
<b>RATE ADJUVANT</b>	0.1% v/v AGRAL 90 or Citowett of spray solution OR 0.25% v/v TURBOCHARGE® of spray solution
<b>REFLEX LIQUID HERBICIDE PLUS PINNACLE® 75DF</b>	For improved annual broadleaf weed control use 1.0 L/ha of REFLEX Liquid Herbicide with 0.008 kg/ha of Pinnacle 75DF. AGRAL 90 at 0.1% v/v should be added to this tank mix. Consult the Pinnacle 75DF label for use directions, weeds controlled, and additional precautions and restrictions.
<b>REFLEX LIQUID HERBICIDE PLUS VENTURE L HERBICIDE</b>	REFLEX Liquid Herbicide alone will not control grass weeds. For control of both grass and broadleaf weeds REFLEX Liquid Herbicide can be tank mixed with VENTURE L Herbicide. Apply REFLEX Liquid Herbicide at 1.0 L/ha with VENTURE L Herbicide at 0.6 L/ha - 2.0 L/ha for control of broadleaf weeds listed on the REFLEX Liquid Herbicide label plus other weeds which appear on the VENTURE L Herbicide label as being controlled with the rate specified. Add AGRAL 90 at 0.1% v/v of spray solution or TURBOCHARGE at 0.25% v/v of spray solution. Consult the VENTURE L Herbicide label for use directions, weeds controlled, and additional precautions and restrictions. Do not apply this tank mix later than the second trifoliolate leaf stage of the crop.
<b>REFLEX LIQUID HERBICIDE PLUS PURSUIT®</b>	REFLEX Liquid Herbicide alone will not control grass weeds. For control of both grass and broadleaf weeds REFLEX Liquid Herbicide can be tank mixed with Pursuit. Apply REFLEX Liquid Herbicide at 1.0 L/ha with Pursuit at 0.312 L/ha for control of broadleaf weeds listed on the REFLEX Liquid Herbicide label plus other weeds which appear on the Pursuit label as being controlled with the rate specified. Apply REFLEX Liquid Herbicide at 0.8 L/ha with Pursuit at 0.312 L/ha for control of common ragweed at the cotyledon to 4-leaf growth stage plus other weeds as listed on the Pursuit label. Add AGRAL 90 at 0.25 L per 100 L of water (0.25% v/v) along with 28% UAN as directed on the Pursuit label. Consult the Pursuit label for use directions, weeds controlled, and additional precautions and restrictions.  Note: The level of annual grass control provided by Pursuit may be slightly reduced when the product is applied in tank mixture with REFLEX Liquid Herbicide.

<b>SOYBEANS</b> <b>Red River Valley of Manitoba ONLY</b>	
<b>CROP APPLICATION TIMING</b>	1-2 trifoliolate leaf
<b>RATE/HA REFLEX LIQUID HERBICIDE</b>	0.58 L/ha
<b>RATE ADJUVANT</b>	0.1% v/v AGRAL 90
<b>REFLEX LIQUID HERBICIDE PLUS BASAGRAN® HERBICIDE</b>	Apply REFLEX Liquid Herbicide at 0.58 L/ha with Basagran Herbicide at 1.75 L/ha for control of broadleaf weeds listed on the REFLEX Liquid Herbicide label plus other weeds which appear on the Basagran Herbicide label as being controlled with the rate specified. Add AGRAL 90 at 0.1% v/v of spray solution. Do not apply more than once per season and to any field only every second year. Consult the Basagran Herbicide label for use directions, weeds controlled, and additional precautions and restrictions.
<b>GLYPHOSATE TOLERANT SOYBEAN VARIETIES</b> <b>Red River Valley of Manitoba ONLY</b>	
<b>NOTE:</b> Always use pedigreed (i.e. certified) glyphosate tolerant soybean varieties. Soybeans which are not designated as glyphosate tolerant will be damaged or destroyed by this treatment.	
<b>CROP APPLICATION TIMING</b>	1-2 trifoliolate leaf
<b>RATE/HA REFLEX LIQUID HERBICIDE</b>	0.58 L/ha
<b>RATE ADJUVANT</b>	0.1% v/v AGRAL 90
<b>REFLEX LIQUID HERBICIDE PLUS TOUCHDOWN TOTAL®</b>	Apply REFLEX Liquid Herbicide at 0.58 L/ha with TOUCHDOWN TOTAL at 1.8-3.6 L/ha (or other glyphosate herbicide registered for use on glyphosate tolerant soybeans at 900-1800 g a.e./ha) for control of volunteer canola and burndown of annual and perennial grasses and broadleaf weeds which appear on the TOUCHDOWN TOTAL label as being controlled with the rate specified. Add AGRAL 90 at 0.1% v/v of spray solution. Consult the TOUCHDOWN TOTAL label for use directions, weed controlled, and additional precautions and restrictions.

**PRE-HARVEST INTERVALS**

Soybeans - 90 days  
 Dry edible beans - 84 days  
 Dry shelled peas – 77 days  
 Succulent peas (shelled and edible podded)- 46 days  
 Perennial strawberries -77 days  
 Snap common beans - 30 days  
 Cucumber – 42 days

**CAUTION:** Do not graze the treated crop or cut for hay; sufficient data are not available to support such use.

**ROTATIONAL CROPPING INFORMATION**

REFLEX Liquid Herbicide can remain active in the soil for several months after application and the residues of REFLEX Liquid Herbicide present a potential carry-over damage to certain crops.

Refer to the table below for a list of crops that may be seeded following an application of REFLEX



Liquid Herbicide at the recommended rates of 1.0 L/ha and 0.58 L/ha. Prior to seeding any crop that is not listed including sweet corn, a field bioassay should be conducted. A field bioassay involves seeding a test strip of the crop(s) intended for production the following year and growing the crop(s) to maturity.

Crop to be Planted	Minimum Rotation Interval (Months After Last REFLEX Liquid Herbicide Application)
Winter Wheat	4
Spring Wheat	10
Soybeans, Dry edible beans, Field Corn	10
All other crops	Bioassay

**Field Bioassay:** Select an area in the field previously treated with REFLEX Liquid Herbicide which most closely approximates the soil conditions of the field as a whole. Test strips should be seeded perpendicular to the direction in which the site was sprayed using standard seeding equipment and following normal cultivation practices. Strips of sufficient length to transect several spray swaths should be seeded to the crops intended for later planting. Reliability of the bioassay results will increase with the number and length of the test strips used. A check strip in an adjacent, untreated area should also be seeded for comparison purposes.

Examine the test strips for possible germination or stand reductions and other symptoms of injury such as colour, vigour and height. Should results of the bioassay suggest that germination or plant development is affected by residues of REFLEX Liquid Herbicide, do not seed until a future bioassay indicates that growth of the crop is normal.

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

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Syngenta Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

**DIRECTIONS FOR USE  
ALWAYS REFER TO THE RESPECTIVE PRODUCT LABEL FOR FURTHER INFORMATION ON WEEDS CONTROLLED, APPLICATION DIRECTIONS, AND USE PRECAUTIONS.**

**LIMA BEANS** - Refer to full product label for complete listing of weeds controlled. Apply once per year at a rate of 1 L/ha at the 1-2 trifoliate stage of the beans. Do not apply REFLEX Liquid Herbicide to any field more often than once every two years. Include a non-ionic adjuvant, such as AGRAL 90, at 0.25% v/v in the spray solution. Ground application only. Under certain growing conditions, some initial transient visual injury may occur following application, but there is no effect on yield.

**OTEBE BEANS (ONTARIO ONLY)** - Refer to full product label for complete listing of weeds controlled. Apply once per year at a rate of 1 L/ha at the 1-2 trifoliolate stage of the beans. Do not apply REFLEX Liquid Herbicide to any field more often than once every two years. Include a non-

ionic adjuvant, such as AGRAL 90, at 0.25% v/v in the spray solution. Ground application only. Under certain growing conditions, some initial transient visual injury may occur following application, but there is no effect on yield.

**SOYBEANS – CONTROL OF TALL WATERHEMP** - Apply once per year at a rate of 1 L/ha at the 1-2 trifoliolate stage of the beans. Application should be made when the main flush of weeds is complete and the majority of the weeds are at the cotyledon to 3 or 4 true leaf stage. Do not apply REFLEX Liquid Herbicide to any field more often than once every two years. Include a non-ionic adjuvant, such as AGRAL 90, at 0.1% v/v or TURBOCHARGE at 0.25% v/v in the spray solution. Ground application only. Under certain growing conditions, some initial transient visual injury may occur following application, but there is no effect on yield.

**POTATOES- Eastern Canada only-** For pre-emergent control of redroot pigweed, common ragweed and lamb-quarters (suppression only), apply REFLEX Liquid Herbicide once per year at a rate of 1.0 L/ha after planting but prior to potato emergence. If weeds are emerged at time of application, include a non-ionic adjuvant, such as AGRAL 90, at 0.1% v/v in the spray solution. Do not apply on soils with >5% organic matter or fine textured soils. Do not cultivate for 7 days after application of REFLEX Liquid Herbicide as effectiveness will be reduced. Do not apply REFLEX Liquid Herbicide to any field more often than once every two years. Ground application only. Do not harvest potatoes within 70 days of application of REFLEX Liquid Herbicide.

**DRY EDIBLE BEANS– Red River Valley of Manitoba ONLY** – Do not treat any crop other than dry edible beans. Refer to the full product label for complete listing of weeds controlled. Do not apply more than once per season and to any field only every second year. Apply 580 mL/ha REFLEX Liquid Herbicide + 1.75 L/ha Basagran + 0.1% v/v AGRAL 90 (100mL/100L of spray solution) in a minimum of 200 L of water per hectare and a pressure of 245 kPa. Increased water volume (350 L) and pressure (420 kPa) are recommended for fields with heavy weed densities and for weeds which are at the upper limit of their recommended stage for treatment. Do not increase the rate of REFLEX Liquid Herbicide. Do not apply at pressures which exceed 420 kPa.

**TIMING OF APPLICATION -**

Crop Stage: 1 - 2 trifoliolate leaf

Weed Stage: 3 - 4 leaf

Preharvest Interval - Dry edible beans - 84 days. **CAUTION:** Do not graze the treated crop or cut for hay; sufficient data are not available to support such use.

**DRY SHELLLED PEAS - Eastern Canada only**

<b>Weeds Controlled</b>	Labelled weeds
<b>Method of Application</b>	Broadcast spray
<b>Rate of Application and Spray Volume</b>	REFLEX Liquid Herbicide at 1.0 L/ha  If target weeds have emerged, REFLEX Liquid Herbicide must be used with a non-ionic adjuvant or TURBOCHARGE. For a non-ionic adjuvant use AGRAL 90 or Citowett at 0.1% v/v of spray solution.  Spray volume: minimum 200 L/ha
<b>Number of Applications</b>	One
<b>Application Timing</b>	Apply after planting but prior to crop emergence.
<b>OTHER</b>	Do not use flood type or other spray nozzles, which deliver coarse, large droplet sprays. DO NOT APPLY BY AIR. Do not make more than 1 application. Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding. <b>DO NOT ROTATE TO ANOTHER CROP IN THE SAME SEASON.</b> Do not apply REFLEX to any field more often than once every two years.

**SUCCULENT PEAS (SHELLED AND EDIBLE-PODDED) - Eastern Canada only**

Pea (succulent) varieties may vary in their response to REFLEX Liquid Herbicide. If soils are cold and wet during pea germination and emergence, the use of REFLEX Liquid Herbicide may delay maturity and/or reduce yields. When using REFLEX Liquid Herbicide for the first time on a particular variety, always determine crop tolerance before using. Plant only high quality seed and do not plant when unfavourable growing conditions exist.

<b>Weeds Controlled</b>	Labelled weeds
<b>Method of Application</b>	Broadcast spray
<b>Rate of Application and Spray Volume</b>	REFLEX Liquid Herbicide at 1.0 L/ha  If target weeds have emerged, REFLEX Liquid Herbicide must be used with a non-ionic adjuvant or TURBOCHARGE at 0.25 %v/v. For a non-ionic adjuvant use AGRAL 90 or Citowett at 0.1% v/v of spray solution.  Spray volume: minimum 200 L/ha
<b>Number of Applications</b>	One
<b>Application Timing</b>	Apply after planting but prior to crop emergence.
<b>OTHER</b>	Do not use flood type or other spray nozzles, which deliver coarse, large droplet sprays. DO NOT APPLY BY AIR. Do not make more than 1 application. Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding. <b>DO NOT ROTATE TO ANOTHER CROP IN THE SAME SEASON.</b> Do not apply REFLEX to any field more often than once every two years.

**CUCUMBER - Eastern Canada and British Columbia only**

<b>Weeds Controlled</b>	lLabelled weeds
<b>Method of Application</b>	Banded application (ground only) to row middles
<b>Rate of Application and Spray Volume</b>	REFLEX Liquid Herbicide at 1.0 L/ha REFLEX Liquid Herbicide must be used with a non-ionic adjuvant or TURBOCHARGE at 0.25 %v/v. if target weeds have emerged. For a non-ionic adjuvant use AGRAL 90 or+ Citowett at 0.1% v/v of spray solution. Spray volume 200 L/ha
<b>Number of Applications</b>	One
<b>Application Timing</b>	Preemergent to the crop. Make application just after seeding but prior to crop emergence; or just prior to transplanting cucumber plants.
<b>Pre-Harvest Interval</b>	42 days
<b>OTHER</b>	Adjust rate according to band and row width. Leave a 30 cm (12 inch) untreated strip centered over the planted row. DO NOT APPLY BY AIR. Do not apply REFLEX to any field more often than once every two years. <b>DO NOT ROTATE TO ANOTHER CROP IN THE SAME SEASON.</b> <b>Application of REFLEX to cucumbers may result in phytotoxicity, if application is made too close to the plants. It is imperative to adjust rate according to band and row width and not to apply directly to cucumber plants. Some varieties of cucumber are more tolerant than others. It is recommended to test a small area before application to the entire crop.</b> Rotational Cropping Information – REFLEX Liquid Herbicide can remain active in the soil for several months after application and the residues of REFLEX Liquid Herbicide presents a potential carry-over damage to certain crops.

**PERENNIALSTRAWBERRIES - Eastern Canada and British Columbia only**

Strawberry cultivars may vary in their tolerance to herbicides, including REFLEX Liquid Herbicide. Since not all strawberry cultivars have been tested for tolerance to REFLEX Liquid Herbicide, first use of REFLEX Liquid Herbicide should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice.

<b>Weeds Controlled</b>	Labelled weeds
<b>Method of Application</b>	Broadcast spray
<b>Rate of Application and Spray Volume</b>	REFLEX Liquid Herbicide at 1.0 L/ha  If target weeds have emerged, REFLEX Liquid Herbicide must be used with a non-ionic adjuvant or TURBOCHARGE at 0.25 %v/v.. For a non-ionic adjuvant use AGRAL 90 or Citowett at 0.1% v/v of spray solution.  Apply REFLEX Liquid Herbicide in a minimum of 200 L of water per hectare and at a pressure of 245 kPa.
<b>Number of Applications</b>	One
<b>Application Timing</b>	Apply during dormancy in the fall or early winter (prior to snowfall)
<b>OTHER</b>	Do not apply to annual strawberries. Do not use flood type or other spray nozzles, which deliver coarse, large droplet sprays. Do not make more than 1 application. If growing on plastic mulch, application must be made prior to laying the plastic mulch. <b>DO NOT APPLY BY AIR.</b>  Do not apply REFLEX to any field more often than once every two years. <b>DO NOT ROTATE TO ANOTHER CROP IN THE SAME SEASON.</b>  Rotational Cropping Information – REFLEX Liquid Herbicide can remain active in the soil for several months after application and the residues of REFLEX Liquid Herbicide presents a potential carry-over damage to certain crops.

Rotational Cropping Information - REFLEX Liquid Herbicide can remain active in the soil for several months after application and the residues of REFLEX Liquid Herbicide presents a potential carry-over damage to certain crops.

Refer to the table below for a list of crops that may be seeded following an application of REFLEX Liquid Herbicide at the recommended rate of 580 mL/ha. Prior to seeding any crop that is not listed including sweet corn, a field bioassay should be conducted. A field bioassay involves seeding a test strip of the crop(s) intended for production the following year and growing the crop(s) to maturity.

Crop to be Planted	Minimum Rotation Interval (Months After Last REFLEX Liquid Herbicide Application)
Winter Wheat	4
Spring Wheat	10
Soybeans, Dry edible beans, Field corn	10
All other crops	Bioassay

Field Bioassay: Select an area in the field previously treated with REFLEX Liquid Herbicide which most closely approximates the soil conditions of the field as a whole. Test strips should be seeded perpendicular to the direction in which the site was sprayed using standard seeding equipment and following normal cultivation practices. Strips of sufficient length to transect several spray swaths should be seeded to the crops intended for later planting. Reliability of the bioassay results will increase with the number and length of the test strips used. A check strip in an adjacent, untreated area should also be seeded for comparison purposes.

Examine the test strips for possible germination or stand reductions and other symptoms of injury such as colour, vigour and height. Should results of the bioassay suggest that germination or plant development is affected by residues of REFLEX Liquid Herbicide, do not seed until a future bioassay indicates that growth of the crop is normal.

### Resistance-Management Recommendations

For resistance management, REFLEX Liquid Herbicide is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to REFLEX Liquid Herbicide and other Group 14 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 REFLEX Liquid Herbicide or other Group 14 herbicides 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.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development.

Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

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 Syngenta company representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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