

GROUP	14	HERBICIDE
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REFLEX[®]
Liquid Herbicide

AGRICULTURAL

HERBICIDE

For selective post-emergence broadleaf weed control in soybeans, dry common beans, snap common beans (yellow and green).

FOR SALE FOR USE IN EASTERN CANADA ONLY

GUARANTEE:

Fomesafen 240 g/litre
(as sodium salt)

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



**WARNING - EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

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

Syngenta Crop Protection Canada, Inc.
140 Research Lane, Research Park
Guelph, Ontario
N1G 4Z3

Pamphlet

NOTICE TO USER

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

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product, and accepts the product on that condition.

FIRST AID

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

If swallowed, get medical attention or call a poison control centre **IMMEDIATELY**. Drink one or two large glasses of water and induce vomiting by touching finger to back of throat. Repeat until vomit is clear.

If inhaled, remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

If on skin, wash thoroughly.

If in eyes, flush out thoroughly with clean water for at least 15 minutes then get medical attention or contact a poison control centre.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed.

May cause skin and eye irritation. Do not get on skin or in eyes. Do not wear contact lenses when using chemicals. Potential skin sensitizer.

Do not smoke, eat, or drink while using this product.

Wear chemical resistant gloves (nitrile), safety goggles, boots and coveralls when mixing, loading, and during clean up or when adjusting or repairing sprayer.

Wash gloves thoroughly with water before removing them during any operation.

Wash hands thoroughly with soap and water after using the product and before eating, drinking or smoking.

Do not contaminate food, water supplies or animal feed.

Keep any unused product in resealed original container locked up away from reach of children and animals and away from food, feed, or fertilizers.

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., contact 1-866-375-4648 or www.cropro.org/.

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 meter 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.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Syngenta Crop Protection Canada, Inc. (See EMERGENCY NUMBER) for further information.

For spills and leaks; contain the liquid with dikes of inert material (soil, clay, kitty litter etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces - sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container.

On soil - remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including scrub brush in accordance with provincial requirements. For more information on the disposal of waste and the clean up of spills, contact the Provincial Regulatory Agency or the Manufacturer.

DECONTAMINATION AND 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.

***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 post-emergence herbicide for control of many broadleaf weeds in soybeans, dry common beans and snap common beans (yellow and green). These beans 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 soybeans, dry common beans and snap common beans (yellow and green) which may have been subjected to such stress conditions. Some bronzing, crinkling or spotting of soybean, dry common 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 common beans or snap common beans (yellow and green).

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 to any field more often than once every two years.

TIMING OF APPLICATION

Soybeans, dry common 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. Apply REFLEX Liquid Herbicide when weeds are small and actively growing. 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. 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	4
Common ragweed	4
Wild mustard	4
Velvetleaf*	3
Lady's-thumb	4
Lamb's-quarters*	3
Eastern Black Nightshade	4
Cocklebur	4

* 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 1.0 L of REFLEX Liquid Herbicide in a minimum of 200 L of water per hectare and at a pressure of 245 kPa. 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. Use TURBOCHARGE on soybeans only at 0.25% v/v of spray solution. 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.

TANK MIXES OF REFLEX LIQUID HERBICIDE WITH OTHER HERBICIDES

REFLEX Liquid Herbicide plus PINNACLE® 75DF (For use in soybeans only)

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.

REFLEX Liquid Herbicide plus VENTURE® 25DG (for use in soybeans only)

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 25DG Herbicide. Apply REFLEX Liquid Herbicide at 1.0 L/ha with VENTURE 25DG Herbicide at 0.7 kg/ha. Use

TURBOCHARGE adjuvant at 0.5% v/v with this tank mix. Read the VENTURE 25DG Herbicide label for information on grass weeds controlled, use directions and additional precautions and restrictions.

REFLEX Liquid Herbicide plus PURSUIT® (for use in soybeans only)

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.

PRE-HARVEST INTERVALS

Soybeans - 90 days

Dry common beans - 84 days

Snap common beans - 30 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 rate of 1.0 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 common beans, Field Corn	10

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 Crop Protection Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Crop Protection 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 Crop Protection 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 trifoliolate stage of the beans. 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.

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 1-87S-YNGENTA (1-877-964-3682) or at www.syngenta.ca.

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