

FLEXSTAR® GT
Herbicide

COMMERCIAL - AGRICULTURAL

HERBICIDE

SOLUTION

For non-selective burndown of annual and perennial grasses and broadleaf weeds and residual control of redroot pigweed and common ragweed in glyphosate-tolerant soybeans.

FOR SALE FOR USE IN EASTERN CANADA AND MANITOBA ONLY

ACTIVE INGREDIENTS:

Fomesafen..... 67 g/L a.e.
(as sodium salt)
Glyphosate..... 271 g/L
(as diammonium salt)

Contains 1,2-benzisothiazolin-3-one at 0.004% OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0001%, 2-methyl-4-isothiazolin-3-one at 0.00006% and 2-bromo-2-nitropropane-1,3-diol at 0.003% as preservatives.

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

WARNING: EYE IRRITANT

REGISTRATION NO.: **30412**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L - Bulk**

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

Label

1.0 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.

2.0 FIRST AID

IF POISONING IS SUSPECTED, call 1-800-327-8633 (FASTMED), or contact a physician or poison control centre **IMMEDIATELY**. 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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Causes eye irritation. DO NOT get in eyes.

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.

RESTRICTED ENTRY INTERVAL (REI): DO NOT enter or allow worker entry during the restricted entry interval (REI) of 12 hours after application.

DO NOT APPLY by air.

DO NOT APPLY IN GREENHOUSES.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear boots with socks, a long-sleeved 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). Wear chemical-resistant gloves if contact with spray nozzles is necessary. Wash the outside of the gloves before removing. Wash splashes from skin and eyes IMMEDIATELY with plenty of water.

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.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants.

Observe spray buffer zones specified under DIRECTIONS FOR USE.

Fomesafen is persistent and may carryover. It is recommended that this product not be used in areas treated with any products containing fomesafen during the previous season.

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

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.

7.0 PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of FLEXSTAR® GT Herbicide should be mixed, stored and applied only in stainless steel, fibreglass, plastic and plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY FLEXSTAR GT HERBICIDE OR SPRAY SOLUTIONS OF FLEXSTAR GT HERBICIDE IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. FLEXSTAR GT Herbicide or spray solutions of FLEXSTAR GT Herbicide react with such containers and tanks to produce hydrogen gas, which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

8.0 STORAGE

Store above -10°C in the original container. Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals. Keep away from fire or open flame, or other sources of heat. If frozen, allow to thaw and agitate thoroughly prior to use. Store this product away from food or feed.

9.0 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.

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. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
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 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 use this container for any other purpose.

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

FLEXSTAR® is a trademark of a Syngenta Group Company.

GROUP	9	14	HERBICIDE
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Booklet

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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.

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10.0 PRODUCT INFORMATION

FLEXSTAR GT Herbicide may be applied pre-plant or pre-emergent to the crop in soybeans or as a post-emergence over-the-top application in glyphosate-tolerant soybeans.

FLEXSTAR GT Herbicide provides burndown of many emerged annual and perennial grasses and broadleaf weeds and residual control of redroot pigweed and common ragweed in soybeans. FLEXSTAR GT Herbicide should be applied under favorable environmental conditions that promote active weed growth. Avoid application to weeds that have been subjected to certain stress conditions such as cold temperatures, excessive moisture, drought, injury from hail or from prior herbicide applications. Avoid application to glyphosate-tolerant soybeans which may have been subjected to such stress conditions. Extremely cool or cloudy weather at treatment time may slow down activity of this product and delay visual effects of control. Some bronzing, crinkling or spotting of the glyphosate-tolerant soybeans may occur, but plants normally outgrow these effects with no adverse effects on maturity or crop yield.

Moisture is necessary to activate FLEXSTAR GT Herbicide for residual weed control. Dry weather following application of FLEXSTAR GT Herbicide may reduce effectiveness.

FLEXSTAR GT Herbicide activity is unaffected by rain falling 4 hours after application.

11.0 DIRECTIONS FOR USE

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

11.1. General Information

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.

Use clean (non-turbid) water for spraying FLEXSTAR GT Herbicide. Muddy water will reduce the effectiveness of FLEXSTAR GT Herbicide. Poor control may also occur when treating weeds heavily covered with dust.

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 FLEXSTAR GT Herbicide to any field more often than once every two years.

Mix only the amount of solution to be used during a one-day period, as reduced activity may result from use of leftover solution.

Drain and clean application equipment immediately after using this product.

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 Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

11.2. Ground Application

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

11.3. Spray Buffer Zones

A spray buffer zone is NOT required for:

- Uses with hand-held application equipment permitted on this label
- 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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer zone (metres) required for the protection of:	
		Aquatic habitat	Terrestrial habitat
Field sprayer	Glyphosate tolerant soybeans	15	15

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.

NOTE: For products where one or more other active ingredients are co-formulated with fomesafen, the most restrictive terrestrial and aquatic spray buffer zones will be required on the label.

11.4. Rotational Cropping Information

FLEXSTAR GT Herbicide can remain active in the soil for several months after application and the residues of FLEXSTAR GT Herbicide present 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 FLEXSTAR GT Herbicide at the recommended rate of 3.5 L/ha for Eastern Canada and 2.1 L/ha for Manitoba. 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 FLEXSTAR GT Herbicide Application at 2.1 L/ha)	Minimum Rotation Interval (Months after Last FLEXSTAR GT Herbicide Application at 3.5 L/ha)
Winter Wheat ³	4	4
Spring wheat ² Soybeans ² Dry edible beans ² Field corn ² Oats ¹	10	10
Field peas ¹ Canola ¹ Sunflower ¹		Bioassay
All other crops	Bioassay	

¹ Precipitation during the (April to October) year of application is equal or greater than the 30-year average for the local location.

² Precipitation during the (April to October) year of application is equal or greater than the 30-year average for the local location when applied outside the Red River Valley of Manitoba..

³ Bioassay required if located outside the Red River Valley.

Field Bioassay: Select an area in the field previously treated with FLEXSTAR GT 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 FLEXSTAR GT Herbicide, do not seed until a future bioassay indicates that growth of the crop is normal.

12.0 CROP USE DIRECTIONS

12.1. Timing of Application

FLEXSTAR GT Herbicide may be applied surface pre-plant (up to 7 days before planting) or pre-emergent to the crop in soybeans or as a post-emergence over-the-top application in glyphosate-tolerant soybeans.

Glyphosate-tolerant soybeans are tolerant to FLEXSTAR GT Herbicide application made to plants in the 1- to 2-trifoliolate leaf stage. Apply FLEXSTAR GT 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.

ANNUAL WEEDS - Burndown**Annual Grasses**

Barley, volunteer
 Barnyard grass
 Bluegrass (annual)
 Corn, volunteer
 Crabgrass (large, smooth)
 Downy brome
 Fall panicum
 Giant foxtail
 Green foxtail
 Persian darnel
 Rye, tame
 Wild oats
 Proso millet
 Wheat, volunteer
 Yellow foxtail

Annual Broadleaf Weeds

Chickweed, common
 Cleavers
 Cocklebur
 Corn spurry
 Cow cockle
 Dodder
 Flax, volunteer
 Fleabane (Canada)
 Flixweed
 Green smartweed
 Hairy galinsoga
 Hemp nettle
 Kochia
 Lady's-thumb
 Lambsquarters
 Low cudweed
 Narrow-leaved Hawk's-beard
 Narrow-leaved vetch
 Night-Flowering catchfly
 Nightshade, Eastern black
 Canola, volunteer
 Pennsylvania smartweed
 Prickly lettuce
 Russian thistle
 Prostrate knotweed
 Round-Leaved mallow
 Shepherd's-purse
 Smooth pigweed
 Sowthistle (annual)
 Stinkweed
 Stork's bill

Waterhemp, tall and common (*A. tuberculatus*) (including glyphosate-tolerant biotypes)*
 Wild buckwheat
 Wild mustard
 Wild tomato
 Wormwood (Absinth)
 Velvetleaf

PERENNIAL WEEDS - Burndown**Perennial Grasses/Sedges**

Blue grass (Canada)
 Blue grass (Kentucky)
 Bromegrass (smooth)
 Cattail (common)
 Foxtail barley
 Orchard grass
 Quack grass
 Redtop
 Wirestem muhly
 Yellow nutsedge

Perennial Broadleaf Weeds

Alfalfa
 Chickweed, mouse-eared
 Clover, white
 Colt's-foot
 Cottontop
 Curled dock
 Dandelion, common
 Field bindweed
 Goldenrod, Canada
 Hemp dogbane
 Hoary cress
 Horsetail
 Jerusalem artichoke
 Knotweed (Japanese)
 Milkweed (common)
 Plantain, broad-leaved
 Poison Ivy
 Purple loosestrife
 Sheep sorrel
 Smooth bedstraw
 Sowthistle (perennial)
 Stitchwort, grass-leaved
 Thistle (Canada)
 Yellow toadflax
 Wild carrot
 Wild grape

ANNUAL WEEDS - Residual Control

Annual Broadleaf Weeds

Ragweed (common)

Redroot Pigweed

Waterhemp, tall and common (*A. tuberculatus*) (including glyphosate-tolerant biotypes)*

***For Eastern Canada only**

12.2. Application Rates

When applying FLEXSTAR GT Herbicide, it is essential to achieve good coverage and ample penetration of the foliage in order to obtain acceptable weed control. As glyphosate kills weeds by affecting the root system, visible effects may take 7 to 10 days to occur.

Do not apply FLEXSTAR GT Herbicide to any field more often than once every two years.

Under stress conditions and for larger weeds, addition of TURBOCHARGE® at 0.25% v/v of spray solution or Carrier or Sure-Mix Surfactant at 0.5% v/v of spray solution is required

NOTE: 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.

DO NOT HARVEST GLYPHOSATE-TOLERANT SOYBEANS WITHIN 90 DAYS OF APPLICATION OF FLEXSTAR GT HERBICIDE.

CAUTION: DO NOT graze the treated crop or cut for hay.

Geography	Eastern Canada	Manitoba
Rate of FLEXSTAR GT Herbicide	3.5 L/ha	2.1 L/ha
Rate of TOUCHDOWN TOTAL Herbicide	N/A	0.7 – 2.46 L/ha
Spray timing	Pre-plant surface (up to 7 days before planting) or pre-emergence application before crop emergence OR Early post-emergent (1- to 2-trifoliolate leaf stage) (glyphosate-tolerant soybeans only)	Early post-emergent (1- to 2-trifoliolate leaf stage) (glyphosate tolerant soybeans only)
Rate of water	150 – 200 L/ha	150 – 200 L/ha
Rate	0.25% v/v TURBOCHARGE or 0.5% v/v Carrier or Sure-Mix Surfactant	0.25% v/v TURBOCHARGE or 0.5% v/v Carrier or Sure-Mix Surfactant
OTHER	Apply at a pressure of 210 – 420 kPa. Do not apply at pressures which exceed 420 kPa. See “Tank Mixing Instructions” below for further information.	Apply at a pressure of 210 – 420 kPa. Do not apply at pressures which exceed 420 kPa. See “Tank Mixing Instructions” below for further information. Will not provide residual control of common ragweed or redroot pigweed

* Use TURBOCHARGE, Carrier and Sure-Mix Surfactant only under stress conditions and for larger weeds

12.3 Tank Mixing Instructions

1. Fill the spray tank with ½ the required amount of water.
2. Add TURBOCHARGE at 0.25% v/v or Carrier or Sure-Mix Surfactant at 0.5% v/v, if required, and agitate to ensure complete mixing.
3. Fill the spray tank to ¾ the required amount of water.
4. Add FLEXSTAR GT Herbicide and agitate to ensure complete mixing.
5. Add TOUCHDOWN TOTAL Herbicide.
6. Finish filling the spray tank with water, maintaining gentle agitation.

13.0 RESISTANT-MANAGEMENT RECOMMENDATIONS

For resistance management, FLEXSTAR GT Herbicide is a Group 9 and 14 herbicide. Any weed population may contain or develop plants naturally resistant to FLEXSTAR GT Herbicide and other Group 9 or 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 FLEXSTAR GT Herbicide or other Group 9 and 14 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), 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 chemical control 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 Syngenta company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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