

2012-1719  
2014-01-28

1

(Container)



# GBX Herbicide

GROUP	4	HERBICIDE
-------	---	-----------

**FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA**

GBX Herbicide is a selective herbicide for postemergent control of annual broadleaved weeds including cleavers and certain ALS-resistant broadleaved weeds such as kochia in spring wheat, durum wheat, spring barley and oats. GBX Herbicide will also suppress hemp-nettle, common chickweed and wild buckwheat.

AGRICULTURAL

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

GUARANTEE: fluroxypyr, present as 1-methylheptyl ester      333 g a.e./L  
Emulsifiable concentrate

REGISTRATION NO. 29958 PEST CONTROL PRODUCTS ACT

**DANGER**  **POISON**

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

NET CONTENTS: 1 L - Bulk

**Dow AgroSciences Canada Inc.**  
Suite 2100, 450 - 1 Street S.W.  
Calgary, Alberta  
T2P 5H1

**Distributed by:**  
Arysta LifeScience North America LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

**Product Information:** 1-866-761-9397  
**In case of spills, poisoning or fire, telephone emergency response number 1-800-424-9300 (24 hours a day).**

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

**PRECAUTIONS****KEEP OUT OF REACH OF CHILDREN****WARNING - EYE IRRITANT****CAUTION - SKIN IRRITANT****DANGER - CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY****HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN****MAY CAUSE SKIN IRRITATION****DO NOT APPLY BY AIR**

DO NOT get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist.

Reentry is not permitted until 12 hours after application for all agricultural scenarios.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields and public buildings.

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 web site at [www.croplife.ca](http://www.croplife.ca).

**PROTECTIVE CLOTHING AND EQUIPMENT**

Wear a hat, coveralls over a long-sleeved shirt and long pants, socks, rubber boots and chemical-resistant gloves during spraying or application. In addition, wear goggles or face shield during mixing, loading, repair and clean-up or when handling the concentrate. Applicators using a closed cab are not required to wear chemical-resistant gloves.

**OPERATOR USE PRECAUTIONS**

Wear freshly laundered clothing and clean protective equipment daily. At completion of spraying or end of the day take a shower immediately. Wash thoroughly with soap and water before eating, drinking, smoking or using the toilet. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse. If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist.

**PHYSICAL OR CHEMICAL HAZARDS**

**COMBUSTIBLE.** Do not use or store near heat or open flame.

**FIRST AID**

**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. 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.

**TOXICOLOGICAL INFORMATION**

THIS PRODUCT CONTAINS A PETROLEUM DISTILLATE. Vomiting may cause aspiration pneumonia. The decision of whether to induce vomiting or not should be made by the attending physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration of petroleum based solvents must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

**AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

**ENVIRONMENTAL HAZARDS**

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 of equipment. This product is also toxic to non-target terrestrial plants.

**STORAGE**

Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs or domestic water supplies. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

**DISPOSAL**

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.

**Returnable Containers:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**Refillable Containers:**

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

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial 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. The user assumes the risk to persons or property that arises from any such use of this product.

(Booklet)



# GBX Herbicide

GROUP	4	HERBICIDE
-------	---	-----------

**FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA**

GBX Herbicide is a selective herbicide for postemergent control of annual broadleaved weeds including cleavers and certain ALS-resistant broadleaved weeds such as kochia in spring wheat, durum wheat, spring barley and oats. GBX Herbicide will also suppress hemp-nettle, common chickweed and wild buckwheat.

AGRICULTURAL

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

GUARANTEE: fluroxypyr, present as 1-methylheptyl ester      333 g a.e./L  
Emulsifiable concentrate

REGISTRATION NO. 29958 PEST CONTROL PRODUCTS ACT

**DANGER**  **POISON**

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

NET CONTENTS: 1 L – bulk

**Dow AgroSciences Canada Inc.**  
Suite 2100, 450 - 1 Street S.W.  
Calgary, Alberta  
T2P 5H1

**Distributed by:**  
Arysta LifeScience North America LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

**Product Information:** 1-866-761-9397  
**In case of spills, poisoning or fire, telephone emergency response number 1-800-424-9300 (24 hours a day).**

**PRECAUTIONS****KEEP OUT OF REACH OF CHILDREN****WARNING - EYE IRRITANT****CAUTION - SKIN IRRITANT****DANGER - CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY****HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN****MAY CAUSE SKIN IRRITATION****DO NOT APPLY BY AIR**

DO NOT get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist.

Reentry is not permitted until 12 hours after application for all agricultural scenarios.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields and public buildings.

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 web site at [www.croplife.ca](http://www.croplife.ca).

**PROTECTIVE CLOTHING AND EQUIPMENT**

Wear a hat, coveralls over a long-sleeved shirt and long pants, socks, rubber boots and chemical-resistant gloves during spraying or application. In addition, wear goggles or face shield during mixing, loading, repair and clean-up or when handling the concentrate. Applicators using a closed cab are not required to wear chemical-resistant gloves.

**OPERATOR USE PRECAUTIONS**

Wear freshly laundered clothing and clean protective equipment daily. At completion of spraying or end of the day take a shower immediately. Wash thoroughly with soap and water before eating, drinking, smoking or using the toilet. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse. If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist.

**PHYSICAL OR CHEMICAL HAZARDS**

**COMBUSTIBLE.** Do not use or store near heat or open flame.

**FIRST AID**

**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. 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.

**TOXICOLOGICAL INFORMATION**

THIS PRODUCT CONTAINS A PETROLEUM DISTILLATE. Vomiting may cause aspiration pneumonia. The decision of whether to induce vomiting or not should be made by the attending physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration of petroleum based solvents must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

**AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

**ENVIRONMENTAL HAZARDS**

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 of equipment. This product is also toxic to non-target terrestrial plants.

**STORAGE**

Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs or domestic water supplies. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

**DISPOSAL****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.

**Returnable Containers:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**Refillable Containers:**

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

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**GENERAL INFORMATION**

GBX Herbicide is a selective postemergent herbicide for the control of annual broadleaved weeds in spring wheat, durum wheat, spring barley and oats, not underseeded with legumes. GBX Herbicide offers a novel mode of action for controlling hard-to-kill annual broadleaved weeds such as kochia (including ALS resistant biotypes) and cleavers. GBX Herbicide will also provide suppression of hempnettle, wild buckwheat and chickweed.

**MODE OF ACTION**

GBX Herbicide is a systemic auxin-type herbicide and moves within the plant for control of exposed and underground plant tissues. The product controls weeds by disrupting normal plant growth patterns. Symptoms of weeds include epinasty (twisting of the stems) and swollen nodes.

**GENERAL USE PRECAUTIONS****Sensitive Plants**

Do not apply GBX Herbicide directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentils, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

**Non-Target Sites**

Do not apply where proximity of susceptible crops or other desirable plants is likely to result in exposure to spray or spray drift. See Environmental Hazards section of the label.

**Crop Rotation**

Fields previously treated with GBX Herbicide can be seeded the following year to alfalfa, barley, canola, corn, dry beans, flax, forage grasses, lentils, mustard, oats, peas, potatoes, rye, soybeans, sugar beets, sunflowers or wheat or fields can be summerfallowed.

**Tank Mixtures**

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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or [www.dowagro.ca](http://www.dowagro.ca) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Dow AgroSciences Inc.

**Spray Equipment Precaution**

Do not apply through any type of irrigation system.

**DO NOT APPLY BY AIR.**

**To Reduce Spray Drift:**

- Use nozzles delivering higher volumes and coarser droplets.
- Use low pressures (200 to 275 kPa).
- Use 100 L/ha of spray solution.
- Spray when the wind velocity is 15 km/hr or less.
- Spot treatments should only be applied with a calibrated boom to prevent over-application.

**Equipment Clean-Up**

Equipment used to apply GBX Herbicide should not be used to apply other pesticides to sensitive crops without thorough cleaning. Contact your GBX Herbicide dealer for detailed equipment cleaning procedures.

**DIRECTIONS FOR USE**

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDDED WITH LEGUMES.

**Crops Registered**

spring wheat  
durum wheat  
spring barley  
oats

**GBX HERBICIDE ALONE**

Apply GBX Herbicide for postemergent control of cleavers and kochia, including ALS resistant kochia and other broadleaved weeds infesting spring wheat, durum wheat and spring barley and oats. See following table for weeds controlled/suppressed and applications rates.

**Weeds Controlled Or Suppressed By GBX Herbicide Alone**

<b>Weeds Controlled</b>	<b>GBX Herbicide Rate (L/ha)</b>
chickweed ♦ (up to 8 cm)	0.41
cleavers (1-4 whorls)	0.21
kochia ♦ (2-8 leaf)	0.31
round-leaved mallow (1-6 leaf)	0.41
volunteer flax (1-12 cm)	0.31
<b>Weeds Suppressed</b>	<b>GBX Herbicide Rate (L/ha)</b>
hempnettle (2-6 leaf)	0.41
stork's-bill (1-8 leaf)	0.31
wild buckwheat (1-8 leaf)	0.21

♦Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

**NOTE:** GBX Herbicide activity is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

**APPLICATION DIRECTIONS****Application Timing**

Apply to actively growing wheat and barley and oats from the 2-leaf crop growth stage up to and including initiation of stem elongation. Apply when weeds are actively growing. Best results are obtained from applications made to seedling weeds. Only weeds emerged at the time of treatment will be controlled. Extreme growing conditions such as drought or near freezing temperature prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Foliage that is wet at the time of application may decrease control. GBX Herbicide applications are rainfast within 1 hour after application. Under conditions of low crop and high weed density, control may be reduced.

**Preharvest/Grazing Intervals (GBX Herbicide applied alone)**

- Livestock may be grazed on treated crops 3 days following application.
- Do not harvest the treated crop within 60 days after application.

**TANK-MIX COMBINATIONS - GBX HERBICIDE + CURTAIL™ M HERBICIDE**

GBX Herbicide mixed with Curtail M Herbicide will control a wide spectrum of broadleaf weeds. Refer to Curtail M Herbicide label for additional precautions and directions for use, particularly crop rotation restrictions.



### Mixing Instructions

Add the correct amount of GBX Herbicide to spray tank 1/2 filled with water and agitate. Add the correct amount of Curtail M Herbicide and continue to agitate.

### Timing of Application

Apply postemergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum wheat, spring barley and oats are in the 3-leaf to just before the flag leaf emergence stage. Do not apply later than the flag-leaf stage.

**Low Rate: To control or suppress the following weeds apply a uniform spray containing GBX at 0.31 L/ha tank mixed with Curtail M Herbicide at 1.5 L/ha.**

#### Weeds Controlled

Canada thistle (low infestations)	mustard, wild
cleavers (1-4 whorls)	shepherd's-purse
flax, volunteer (1-12 cm)	stinkweed
flixweed (spring seedling 2-4 leaf)	sunflower, volunteer
kochia***	wild buckwheat (1-8 leaf)
lamb's-quarters	

#### Weeds Suppressed

stork's-bill (1-8 leaf)

**High Rate: To control or suppress the following weeds apply a uniform spray containing GBX at 0.41 L/ha tank mixed with Curtail M Herbicide at 2.0 L/ha.**

#### Weeds Controlled

Canada thistle*	lamb's-quarters	sow-thistle (annual)
canola (volunteer)	redroot pigweed	sow-thistle (perennial)*
cleavers (1-4 whorls)	round-leaved mallow (1-6 leaf)	stinkweed
common chickweed*	Russian pigweed	stork's-bill (1-8 leaf)
common groundsel	scentless chamomile	sunflower (volunteer)
dandelion**	shepherd's-purse	tartary buckwheat
flixweed**	smartweed	volunteer flax (1-12 cm)
hemp-nettle (2-6 leaf)		wild buckwheat (1-8 leaf)
kochia***		wild mustard

\* Season long control, with some regrowth in the fall (top growth control).

\*\* Spring rosettes only.

\*\*\* Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

The active ingredients in this tank mixture will only control chickweed that is emerged at TIME OF application. Chickweed plants which emerge after application will not be controlled. To improve the reduction in chickweed population at the end of season, delay the timing of application as late as possible to when the majority of chickweed plants have emerged. The reduction in chickweed population will also be improved in crops which are more competitive and which allow limited light penetration.

### Pre-Harvest/Grazing Intervals (GBX Herbicide + Curtail M Herbicide)

- Do not cut or graze treated fields within 7 days after application.
- Do not harvest the treated mature crop within 60 days after application.

When tank mixing with Curtail M Herbicide, wear goggles or face shield, coveralls and chemically resistant gloves, apron and boots when mixing, loading and during clean-up and repair.

Curtail M Herbicide contains an ingredient that is rapidly absorbed through the skin and respiratory tract.

## TANK MIXES WITH GBX HERBICIDE + CURTAIL M HERBICIDE FOR ANNUAL GRASS CONTROL (Do not apply to oats)

Tank mixtures of GBX Herbicide + Curtail M Herbicide with other herbicides will provide control of additional weeds. See following table for tank mixes with GBX Herbicide + Curtail M Herbicide. Follow all precautions, minimal interval to harvest and directions for use on the GBX Herbicide and tank-mix partner labels.

### Tank-Mix Combinations with GBX Herbicide at 0.31 L/ha + Curtail M Herbicide at 1.5 L/ha or GBX Herbicide at 0.41 L/ha + Curtail M Herbicide at 2.0 L/ha

Herbicide Tank-Mix Partner	Crops Registered	Rate of Tank-Mix Partner	Adjuvant Rate	Additional Weeds
Everest 70 WDG or Everest Solupak 70 DF	spring wheat, durum wheat	43 g/ha	Refer to Everest Solupak 70 DF or Everest 70 WDG label	green foxtail wild oats

## TANK-MIX COMBINATION - GBX HERBICIDE + 2,4-D ESTER HERBICIDE (Do not apply to oats)

For control of a wide spectrum of broadleaved weeds (see following table) apply GBX Herbicide tank mixed with 2,4-D Ester Herbicide. Apply postemergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum wheat and spring barley are in the 4-leaf to flag-leaf stage. Application before the 4-leaf stage of wheat and barley may cause severe twisting of leaves and stem, and head deformities which may reduce yield up to 10%. Do not apply later than the flag-leaf stage.

### Rates of Applications

**I. Low Rate:** To control the following weeds apply a uniform spray containing 0.23 L/ha GBX Herbicide and 420 g a.e./ha 2,4-D Ester Herbicide (equivalent to 0.64 L/ha of 2,4-D Ester LV700 Herbicide) in a minimum of 100 L of water per hectare to thoroughly cover the weeds.

#### Weeds Controlled:

Bluebur	hoary cress*	stinkweed
Burdock	kochia <sup>†</sup>	sunflower (annual)
Canola (volunteer)	lamb's quarters	vetch
Cleavers (1-4 whorls)	mustards (except green, dog & tansy)	wild radish
Clovers (sweet)	plantain	wild mustard
Cocklebur	prickly lettuce	wild buckwheat (1-6 leaf)
Flixweed	ragweed	
Field horsetail	shepherd's purse	
Goat's-beard		

**II. High Rate:** To control the above weeds plus the additional weeds listed below, apply a uniform spray containing 0.31 L/ha of GBX Herbicide and 560 g a.e./ha of 2,4-D Ester Herbicide (equivalent to 0.85L/ha of 2,4-D Ester LV700 Herbicide) in a minimum of 100 L of water per hectare to thoroughly cover the weeds.

#### Additional Weeds Controlled:

Blue lettuce*	hairy galinsoga	Russian thistle
Dandelion-	hedge bindweed	smartweed
Docks	lady's thumb	stork's-bill (1-8 leaf)
Dog mustard	leafy spurge*	tansy mustard
Field bindweed*	oak-leaved goosefoot	tartary buckwheat
Field peppergrass	redroot pigweed	volunteer flax (1-12cm)
Gumweed	round-leaved mallow (1-6 leaf)	wild buckwheat (1- 8 leaf)

**Weeds Suppressed:**

common chickweed<sup>†</sup> (up to 8 cm)      hempnettle (2-6 leaf stage)      sow-thistle (perennial) ♦  
 Canada thistle ♦      sow-thistle (annual)

♦ Top growth control only

▽ Spring rosettes

† Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme

**NOTE:** The activity of GBX Herbicide combined with 2,4-D Ester Herbicide is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

**Mixing Instructions**

Add the correct amount of GBX Herbicide to spray tank 1/2 filled with water and agitate. Add the correct amount of 2,4-D Ester Herbicide (e.g. 2,4-D Ester 700 Herbicide) and continue to agitate.

**Pre-Harvest/Grazing Intervals (GBX Herbicide + 2,4-D Ester Herbicide)**

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Do not harvest the treated mature crop within 60 days after application.

**TANK-MIX COMBINATIONS - GBX HERBICIDE + 2,4-D ESTER HERBICIDE + OTHER HERBICIDES (Do not apply to oats)**

Tank mixtures of GBX Herbicide + 2,4-D Ester Herbicide with other herbicides will provide control of additional weeds. For products which may be tank mixed with GBX Herbicide + 2,4-D Ester Herbicide and the additional weeds controlled see following table. Follow all precautions, minimal interval to harvest and directions for use on the GBX Herbicide and tank-mix partner labels.

**Tank-Mix Combinations with GBX Herbicide (0.31 L/ha) + 2,4-D Ester Herbicide (560 g a.e./ha) or GBX Herbicide (0.23 L/ha) + 2,4-D Ester Herbicide (420 g a.e./ha)**

Herbicide Tank-Mix Partner	Crops Registered	Rate of Tank-Mix Partner	Adjuvant Rate	Additional Weeds
Everest 70 WDG or Everest Solupak 70 DF	spring wheat, durum wheat	43 g/ha	Refer to Everest Solupak 70 DF or Everest 70 WDG label	green foxtail wild oats

**TANK-MIX COMBINATIONS – GBX HERBICIDE + 2,4-D ESTER HERBICIDE + REFINE EXTRA 75 DF HERBICIDE OR REFINE EXTRA 75 TOSS-N-GO HERBICIDE OR REFINE SG HERBICIDE OR REFINE SG TOSS-N-GO HERBICIDE (Do not apply to oats)****Spring Wheat (excluding durum) and spring barley****In The Prairie Provinces and Peace River Region of British Columbia Only.**

For control of a wide spectrum of broadleaf weeds, including cleavers, GBX Herbicide may be tank mixed with 2,4-D Ester Herbicide and Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide or Refine SG Herbicide or Refine SG Toss-N-Go Herbicide. Apply GBX Herbicide at 0.16 L/ha tank mixed with Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide at 20 g/ha, or Refine SG

Herbicide or Refine SG Toss-N-Go Herbicide at 30 g/ha, 2,4-D Ester Herbicide at 280 g a.e./ha (equal to 0.5 L/ha of 2,4-D Ester LV 600 or 0.42 L/ha of 2,4-D Ester LV 700) and a non-ionic surfactant (Agral 90, Ag-Surf or Citowett Plus) at 2 L per 1000 L of spray solution. A spray volume of 100 L/ha should be utilized. Apply postemergence when weeds are in the seedling up to 4-leaf/whorls stage, and when spring wheat (excluding durum) and spring barley are in the 4-leaf to flag-leaf stage. **Do not apply to crops underseeded to legumes.**

### Weeds Controlled or Suppressed

#### Weeds Controlled:

annual smartweed (green smartweed, lady's thumb)	groundsel (common)	shepherd's purse
ball mustard	hemp-nettle	stinkweed
chickweed (1-6 leaf) <sup>1</sup>	Kochia <sup>3</sup>	tartary buckwheat
cleavers <sup>2</sup>	lamb'-quarters	volunteer rapeseed <sup>4</sup>
corn spurry	narrow-leaved hawk's beard	volunteer sunflower
cow Cockle	redroot pigweed	wild buckwheat <sup>5</sup>
flixweed	Russian thistle	wild mustard

<sup>1</sup> Spray before crop canopy prevents thorough coverage of weeds. Chickweed emerging after application will not be controlled.

<sup>2</sup> Excluding Group 2 resistant cleavers

<sup>3</sup> Excluding Group 2 resistant kochia

<sup>4</sup> The tank-mix will not control imazethapyr tolerant canola varieties (e.g. Clearfield varieties or other varieties with the Pursuit Smart trait)

<sup>5</sup> Apply to actively growing wild buckwheat from the cotyledon to 3-leaf stage. Control may be reduced under environmental stress. Large plants may regrow after treatment

#### Weeds Suppressed:

Canada thistle <sup>6</sup>	sow thistle <sup>6</sup>
round leaved mallow (2-6 leaf) <sup>7</sup>	stork's Bill (2-6 leaf)
scentless chamomile	toadflax (to 15 cm) <sup>8</sup>

<sup>6</sup> Apply when most of the thistles have emerged and are actively growing. Apply before bud stage, and before crop canopy prevents thorough coverage of thistles, when thistles are no larger than 15 cm in height for best top growth control. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be controlled.

<sup>7</sup> Apply to actively growing round leaved mallow. Will keep mallow stunted, but may not be able to reduce overall populations.

<sup>8</sup> A control program for this weed includes chemical application and frequent tillage.

### Mixing Instructions

Fill the tank to 1/3 full of clean water. With agitator running, add required amount of Refine Extra 75 DF Herbicide or, Refine Extra 75 Toss-N-Go Herbicide, or Refine SG Herbicide or Refine SG Toss-N-Go Herbicide and continue to agitate for a minimum of 5 minutes to ensure the Refine Extra 75 DF Herbicide, or Refine Extra 75 Toss-N-Go Herbicide, or Refine SG Herbicide or Refine SG Toss-N-Go Herbicide is completely dissolved. After it is fully dissolved add the GBX Herbicide with continuous agitation. Add the 2,4-D Ester herbicide and the rest of the water. Then add adjuvant. Use a spray volume of 100 L/ha. Consult the 2,4-D label for additional application instructions and use precautions.

### Preharvest/Grazing Intervals (GBX Herbicide + Refine Extra + 2,4-D Ester)

- Allow 7 days between application and grazing of lactating dairy animals.
- Do not harvest forage or cut hay within 30 days after application.
- Remove meat animals from treated fields at least 3 days prior to slaughter.
- Do not harvest the treated mature crop within 60 days after application.

### TANK-MIX COMBINATION - GBX HERBICIDE + MCPA LV500 HERBICIDE OR MCPA LV600 HERBICIDE

For control of a wide spectrum of broadleaved weeds (see following table) apply GBX Herbicide at 0.31 L/ha tank mixed with MCPA LV500 Herbicide at 1.12 L/ha or MCPA LV600 Herbicide at 0.93 L/ha. Apply postemergence when weeds are in the seedling stage (2-4 leaf) and when spring wheat, durum wheat and spring barley are in the 3-leaf to flag-leaf stage. Application before the 3-leaf stage of wheat and barley may cause severe twisting of leaves and stem, and head deformities which may reduce yield up to 10%. Do not apply later than the flag-leaf stage. Do not apply to cereals underseeded with a legume.

#### Mixing Instructions

Add the correct amount of GBX Herbicide to spray tank 1/2 filled with water and agitate. Add the correct amount of MCPA LV500 Herbicide or MCPA LV600 Herbicide and continue to agitate.

#### Weeds Controlled or Suppressed by GBX Herbicide + MCPA LV500 Herbicide or MCPA LV600 Herbicide Tank-Mix

##### Weeds Controlled

burdock, common	hempnettle (2-6 leaf)	ragweed, common
canola, volunteer	kochia <sup>†</sup>	shepherd's-purse
cleavers (1-4 whorls)	lamb's-quarters	stinkweed
cocklebur	mustard (except dog & green tansy)	sunflower, annual
flax, volunteer (1-12 cm)	pigweed, redroot (1-4 leaf)	vetch
flixweed	prickly lettuce	wild radish
		Wild buckwheat (1-8 leaf)

##### Weeds Suppressed

green smartweed  
stork's-bill (1-8 leaf)

<sup>†</sup> Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

#### Pre-Harvest/Grazing Intervals (GBX Herbicide + MCPA LV500 Herbicide or MCPA LV600 Herbicide)

- Allow 7 days between application and grazing/cutting for hay.
- Do not harvest the treated mature crop within 60 days after application.

#### TANK-MIX COMBINATIONS - GBX HERBICIDE + MCPA LV500 HERBICIDE or MCPA LV600 HERBICIDE + OTHER HERBICIDES (Do not apply to oats)

Tank mixtures of GBX Herbicide + MCPA LV500 Herbicide or MCPA LV600 Herbicide with other herbicides will provide control of additional weeds. For products which may be tank mixed with GBX Herbicide + MCPA LV500 Herbicide or MCPA LV600 Herbicide and the additional weeds controlled see following table. Follow all precautions, minimal interval to harvest and directions for use (including timing of application) on the GBX Herbicide and tank-mix partner labels.

#### Tank-Mix Combinations with GBX Herbicide (0.31 L/ha) + MCPA LV500 Herbicide (1.12 L/ha) or MCPA LV600 (0.93 L/ha)

Herbicide Tank-Mix Partner	Crops Registered	Rate/ha	Adjuvant Rate	Additional Weeds
Everest 70 WDG or Everest Solupak 70 DF	spring wheat, durum wheat	43 g/ha	Refer to Everest 70 WDG or Everest Solupak 70 DF label	green foxtail wild oats

**BUFFER ZONES:**

Use 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).

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	
Field sprayer	Spring wheat, durum wheat, spring barley and Oats	1	0	3

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, GBX Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to GBX Herbicide and other Group 4 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 GBX Herbicide or other Group 4 herbicides within a growing season (sequence) or among growing season 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 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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or at [www.dowagro.ca](http://www.dowagro.ca).

**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.

<sup>TM</sup>Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow  
All other products listed are registered trademarks of their respective companies.