

2023-03-15

2023-0477

\*Container Label\*



## VIKING™ Fluroxypyr Herbicide

GROUP	4	HERBICIDE
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EMULSIFIABLE CONCENTRATE

COMMERCIAL (AGRICULTURAL)

FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND THE INTERIOR OF BRITISH COLUMBIA  
(INCLUDING THE PEACE RIVER REGION)

**VIKING Fluroxypyr 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, and spring barley.

**VIKING Fluroxypyr Herbicide** will also suppress hemp-nettle, common chickweed and wild buckwheat.

**REGISTRATION NO.:** 34778 PEST CONTROL PRODUCTS ACT

**ACTIVE INGREDIENT:** fluroxypyr 180 g/L (present as 1-methylheptyl ester)

**NET CONTENTS:** 4.8 L – 1020 L

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**



**POISON**

**EYE AND SKIN IRRITANT**

**In case of emergency call the 24 hour Emergency Response Number 1-800-424-9300 or  
1-703-527-3887**

**Viking Crop Production Partners Inc.**

Box 18033

RPO Shawnessy

Calgary, AB. T2Y 0K3

1-587-743-1029

Viking (TM) is a trademark of Viking Crop Production Partners Inc.

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN**

**HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN**

**MAY CAUSE SKIN IRRITATION**

**DO NOT APPLY USING AERIAL APPLICATION EQUIPMENT**

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

DO not use in residential areas. Residential areas are defined as any use site where bystanders, including children, could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public, including children, could be exposed.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

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

## **PROTECTIVE CLOTHING AND EQUIPMENT**

**At all times:** Wear a long-sleeved shirt, long pants, and socks plus shoes. **In addition, during mixing and loading, and clean-up and repair:** Wear goggles or face shield and chemical-resistant gloves.

Rinse gloves before removal.

## **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 petroleum distillates. Treatment should be based on judgment of the physician in response to reactions of the patient. Vomiting may cause aspiration pneumonia.

## **AGRICULTURAL CHEMICAL**

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

### **ENVIRONMENTAL PRECAUTIONS:**

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

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.

This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms.

### **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. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

To prevent contamination, store this product away from food or feed.

### **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.
2. Add the rinsings to the spray mixture in the tank.
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.

#### **Returnable Containers:**

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#### **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.

\*Booklet Label\*



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

## **PROTECTIVE CLOTHING AND EQUIPMENT**

**At all times:** Wear a long-sleeved shirt, long pants, and socks plus shoes. **In addition, during mixing and loading, and clean-up and repair:** Wear goggles or face shield and chemical-resistant gloves. Rinse gloves before removal.

## **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.

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## **AGRICULTURAL CHEMICAL**

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

### **ENVIRONMENTAL PRECAUTIONS:**

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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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### **STORAGE**

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### **DISPOSAL**

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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

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

## MODE OF ACTION

**VIKING Fluroxypyr 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 **VIKING Fluroxypyr 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 Precautions section of the label.

### Crop Rotation

Fields previously treated with **VIKING Fluroxypyr Herbicide** can be seeded the following year to barley, canola, flax, forage grasses, lentils, mustard, oats, peas, rye or wheat or fields can be summerfallowed.

### Tank Mixtures

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 Viking Crop Production Partners Inc. at 1-587-743-1029 for information before applying any tank mix that is not specifically recommended on this label.

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.

### Spray Equipment Precaution

Do not apply through any type of irrigation system.

## DO NOT APPLY USING AERIAL APPLICATION EQUIPMENT

### To Reduce Spray Drift:

- Use nozzles delivering higher volumes and coarser droplets.
- Use low pressure (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 **VIKING Fluroxypyr Herbicide** should not be used to apply other pesticides to sensitive crops without thorough cleaning. Contact Viking Crop Production Partners Inc. 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 UNDERSEEDED WITH LEGUMES.

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.

**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.

### Spray Buffer Zones:

Spot treatments using hand-held equipment **DO NOT** require a spray buffer zone.

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 shrub lands), 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 Zones (metres) Required of the Protection of:				
		Fresh Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat:
		Less than 1m	Greater than 1m	Less than 1m	Greater than 1m	
Field sprayer	Spring wheat, durum wheat, spring barley	1	0	1	1	1

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.



## Crops Registered

spring wheat  
durum wheat  
spring barley

## VIKING Fluroxypyr Herbicide ALONE

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

### Weeds Controlled or Suppressed By VIKING Fluroxypyr Herbicide Alone

Weeds Controlled	VIKING Fluroxypyr Herbicide Rate (L/ha)
cleavers (1-4 whorls)	0.4
kochia* (2-8 leaf)	0.6
round-leaved mallow (1-6 leaf)	0.8
volunteer flax (1-12 cm)	0.6
Weeds Suppressed	VIKING Fluroxypyr Herbicide Rate (L/ha)
chickweed* (up to 8 cm)	0.8
hemp-nettle (2-6 leaf)	0.8
stork's-bill (1-8 leaf)	0.6
wild buckwheat (1-4 leaf)	0.8

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

**NOTE: VIKING Fluroxypyr 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 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. **VIKING Fluroxypyr Herbicide** applications are rainfast within 1 hour after application. Under conditions of low crop and high weed density, control may be reduced.

### Pre-Harvest/Grazing Intervals (VIKING Fluroxypyr 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 – VIKING Fluroxypyr Herbicide + ACHIEVE™ LIQUID HERBICIDE

For control of wild oats and green foxtail in spring wheat and spring barley apply 0.5 L/ha of Achieve Liquid with **VIKING Fluroxypyr Herbicide**. Refer to the above table for rates and broadleaved weeds controlled or suppressed with **VIKING Fluroxypyr Herbicide**. To control additional broadleaved weeds tank-mix with either 2,4-D Ester or MCPA Ester up to a maximum of 560 g a.e./ha (equivalent to 1.0 L/ha of 2,4-D LV600 or 1.12 L/ha of MCPA LV500 or 0.93 L/ha of MCPA Ester 600) or 1.5 to 2.0 L/ha Curtail™ M Herbicide. Refer to the 2,4-D Ester or MCPA tank-mix partner label for rates less than 560 g a.e./ha and weeds controlled.

### Mixing Instructions

1. Begin to fill sprayer tank with clean water and engage agitator. **Agitation must be continued throughout the entire mixing and spraying procedure.**
2. When the sprayer is three-quarters full of water, add Achieve Liquid. If more than one container of Achieve Liquid is to be used, add all Achieve Liquid containers prior to adding **VIKING Fluroxypyr Herbicide.**
3. Add **VIKING Fluroxypyr Herbicide** next. If more than one container of **VIKING Fluroxypyr Herbicide** is to be used, add all **VIKING Fluroxypyr Herbicide** containers prior to adding any other tank-mix partners.
4. If 2,4-D Ester, MCPA Ester, or Curtail M are also being added, add these next. If more than one container of 2,4-D Ester, MCPA Ester, or Curtail M is to be used, add all 2,4-D Ester, MCPA Ester or Curtail M containers prior to adding Turbocharge.
5. Lastly, add the required amount of Turbocharge and then continue to fill tank to desired level with water.

### TANK-MIX COMBINATIONS – VIKING Fluroxypyr Herbicide + CURTAIL M HERBICIDE

For control of a wide spectrum of broadleaved weeds (see following table) in spring wheat, durum wheat and spring barley, apply **VIKING Fluroxypyr Herbicide** at 0.8 L/ha tank mixed with Curtail M Herbicide at 2.0 L/ha.

### Mixing Instructions

Add the correct amount of **VIKING Fluroxypyr 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 and spring barley are in the 3-leaf to just before the flag leaf emergence stage. Do not apply later than the flag-leaf stage.

### Weeds Controlled or Suppressed by VIKING Fluroxypyr Herbicide + Curtail M Herbicide Tank-Mix

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

<sup>†</sup>Season long control, with some regrowth in the fall (top growth control).

<sup>††</sup>Spring rosettes only.

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

<sup>††††</sup>Suppression

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 the 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 (VIKING Fluroxypyr 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.

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

## TANK MIXES WITH VIKING FLUROXYPYR HERBICIDE + CURTAIL M HERBICIDE FOR ANNUAL GRASS CONTROL

Tank mixtures of **VIKING Fluroxypyr Herbicide** + Curtail M Herbicide with other herbicides will provide control additional weeds. See following table for tank mixes with **VIKING Fluroxypyr Herbicide** + Curtail M Herbicide.

### Tank-Mix Combinations with VIKING Fluroxypyr Herbicide (0.8 L/ha) + Curtail M Herbicide (2.0 L/ha)

Herbicide Tank-Mix Partner	Crops Registered	Rate of Tank-Mix Partner	Adjuvant Rate	Additional Weeds
Achieve	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail wild oats
Assert® 300 SC	spring wheat, durum wheat, spring barley	1.3 L/ha	Refer to Assert 300 SC label	wild oats (1-3 leaf)
		1.6 L/ha		wild oats (4 leaf)

\*Curtail M Herbicide can be used at a rate of 1.5 to 2.0 L/ha with this tank-mix combination.

## TANK-MIX COMBINATION – VIKING FLUROXYPYR HERBICIDE + 2,4-D ESTER HERBICIDE

For control of a wide spectrum of broadleaved weeds (see following tables) apply **VIKING Fluroxypyr 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 Application

I. **Low Rate:** To control the following weeds apply a uniform spray containing 0.45 L/ha **VIKING Fluroxypyr Herbicide** and 420 g a.e./ha 2,4-D Ester Herbicide in a minimum of 100 L of water per hectare to thoroughly cover the weeds.

Weeds Controlled:		
Bluebur	hoary cress*	stinkweed
Burdock	Kochia†	sunflower (annual)
canola (volunteer)	lamb's-quarters	vetch
cleavers (1-4 whorls)	mustards (except green, dog & tansy)	wild radish
clovers (sweet)	plantain	wild buckwheat (1-4 leaf)
Cocklebur	prickly lettuce	wild mustard
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 0.6 L/ha of **VIKING Fluroxypyr Herbicide** and 560 g a.e./ha of 2,4-D Ester 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 (1-12 cm)
Gumweed	round-leaved mallow (1-6 leaf)	wild buckwheat (1-4 leaf)
Weeds Suppressed:		
common chickweed† (up to 8 cm)	hemp-nettle (2-6 leaf stage)	sow-thistle (perennial)*

Canada thistle*	sow-thistle (annual)	
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\*Top growth control only.

^Spring rosettes.

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

**NOTE:** The activity of **VIKING Fluroxypyr 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 **VIKING Fluroxypyr Herbicide** to spray tank ½ filled with water and agitate. Add the correct amount of 2,4-D Ester Herbicide and continue to agitate.

### Pre-Harvest/Grazing Intervals (VIKING Fluroxypyr 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 – VIKING FLUROXYPYR HERBICIDE + 2,4-D ESTER HERBICIDE + OTHER HERBICIDES

Tank mixtures of **VIKING Fluroxypyr Herbicide** + 2,4-D Ester Herbicide with other herbicides will provide control of additional weeds. For products which may be tank mixed with **VIKING Fluroxypyr Herbicide** + 2,4-D Ester Herbicide and the additional weeds controlled see following table.

#### Tank-Mix Combinations with VIKING Fluroxypyr Herbicide (0.6 L/ha) + 2,4-D Ester Herbicide (560 g a.e./ha) or VIKING Fluroxypyr Herbicide (0.45 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
Achieve Liquid <sup>†,†††</sup>	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail, wild oats
Assert 300 SC	spring wheat, durum wheat, spring barley	1.3 L/ha	Refer to Assert 300 SC label	wild oats (1-3 leaf stage)
		1.6 L/ha		wild oats (4 leaf stage)
Everest <sup>®</sup> Solupak 70 DF	spring wheat, durum wheat	43 g/ha	Refer to Everest Solupak 70 DF Label	green foxtail, wild oats
Liquid Achieve SC Herbicide <sup>†,†††</sup>	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge 0.5 L/100 L of spray volume (0.5% v/v)	green foxtail, wild oats

†Do not apply this tank-mix prior to the 4 leaf stage of the cereal crop as temporary crop injury could occur. This tank-mix may cause temporary crop injury. However, yield will not normally be affected. This tank-mix may reduce control of wild oats compared to Liquid Achieve SC Herbicide or Achieve Liquid Herbicides alone.

††Wild oat control may be reduced when tank mixed with **VIKING Fluroxypyr Herbicide** + 2,4-D Ester Herbicide.

†††2,4-D Ester can be tank mixed at rates up to a maximum of 560 g a.e./ha with this tank-mix combination.

**TANK-MIX COMBINATIONS – VIKING FLUROXYPYR 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**

**Spring Wheat (excluding durum) and spring barley**

**In The Prairie Provinces and Interior of British Columbia (including the Peace River Region) Only.**

For control of a wide spectrum of broadleaf weeds, including cleavers, **VIKING Fluroxypyr 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 **VIKING Fluroxypyr Herbicide** at 0.3 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**

<b>Weeds Controlled:</b>		
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's-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.

<b>Weeds Suppressed:</b>	
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, Refine Extra 75 Toss-N-Go Herbicide, 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, Refine Extra 75 DF Toss-N-Go Herbicide, Refine SG Herbicide or Refine SG Toss-N-Go Herbicide is completely dissolved. After it is fully dissolved, add the **VIKING Fluroxypyr 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.

### Pre-Harvest/Grazing Intervals

- 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 – VIKING FLUROXPYR HERBICIDE + MCPA LV500 HERBICIDE OR MCPA ESTER 600 HERBICIDE

For control of a wide spectrum of broadleaved weeds (see following table) apply **VIKING Fluroxypyr Herbicide** at 0.6 L/ha tank mixed with MCPA LV500 Herbicide at 1.12 L/ha or MCPA Ester 600 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 **VIKING Fluroxypyr Herbicide** to spray tank ½ filled with water and agitate. Add the correct amount of MCPA LV500 Herbicide or MCPA Ester 600 Herbicide and continue to agitate.

### Weeds Controlled or Suppressed by VIKING Fluroxypyr Herbicide + MCPA LV500 Herbicide or MCPA Ester 600 Herbicide Tank-Mix

Weeds Controlled:		
burdock, common	hemp-nettle (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
Weeds Suppressed:		
green smartweed	wild buckwheat (1-4 leaf)	
stork's-bill (1-8 leaf)		

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

### Pre-Harvest/Grazing Intervals (VIKING Fluroxypyr Herbicide + MCPA LV500 Herbicide or MCPA Ester 600 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 – VIKING FLUROXPYR HERBICIDE + MCPA LV500 HERBICIDE OR MCPA ESTER 600 HERBICIDE + OTHER HERBICIDES

Tank mixtures of **VIKING Fluroxypyr Herbicide** + MCPA LV500 Herbicide or MCPA Ester 600 Herbicide with other herbicides will provide control of additional weeds. For products which may be tank mixed with **VIKING Fluroxypyr Herbicide** + MCPA LV500 Herbicide or MCPA Ester 600 Herbicide and the additional weeds controlled see following table.

**Tank-Mix Combinations with VIKING Fluroxypyr Herbicide (0.6 L/ha) + MCPA LV500 Herbicide (1.12 L/ha) or MCPA Ester 600 Herbicide (0.93 L/ha)**

Herbicide Tank-Mix Partner	Crops Registered	Rate/ha	Adjuvant Rate	Additional Weeds
Achieve Liquid <sup>†</sup>	spring wheat, durum wheat, spring barley	0.5 L/ha	Turbocharge 0.5 L/ha (0.5% v/v)	green foxtail wild oats
Assert 300 SC	spring wheat, durum wheat, spring barley	1.3 L	Refer to Assert 300 SC label	wild oats (1-3 leaf)
		1.6 L		wild oats (4 leaf)

<sup>†</sup>MCPA Ester can be tank mixed at rates up to a maximum of 560 g ae/ha with this tank-mix combination.

**TANK-MIX COMBINATIONS – VIKING FLUROXYPR 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**

For control of a wide spectrum of broadleaved weeds (see following table) **VIKING Fluroxypyr Herbicide** can be tank mixed with 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 post-emergence when weeds are actively growing, with best results on seedling weeds that are less than 10 cm in height. Only weeds emerged at the time of treatment will be controlled. Thorough covering of the target weeds is essential. The tank-mix can be applied to actively growing spring wheat, including durum, and spring barley from the 2-leaf crop growth stage up to and including initiation of stem elongation. The tank-mix 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 with **VIKING Fluroxypyr Herbicide** allows for the control of Group 2 resistant cleavers at 0.4 L/ha and kochia at 0.6 L/ha. **Do not apply to crops underseeded to legumes or grasses.**

**Rates of Application**

To control the following weeds apply a uniform spray containing 0.4 to 0.8 litres of **VIKING Fluroxypyr Herbicide** with 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go Herbicide and 2 litres per 1000 L spray solution of non-ionic surfactant (Agral 90, Ag-Surf or Citowett Plus) with a spray volume of 100 L/ha.

**Weeds Controlled or Suppressed**

<b>Weeds Controlled at 0.4 L/ha of VIKING Fluroxypyr Herbicide and 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go Herbicide:</b>		
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>2</sup>	tartary buckwheat
cleavers (1-4 whorls)	lamb's-quarters	volunteer rapeseed <sup>3</sup>
corn spurry	narrow-leaved hawk's beard	volunteer sunflower
cow cockle	redroot pigweed	wild buckwheat <sup>4</sup>
Flixweed	Russian thistle	wild mustard

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

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

<sup>3</sup>The tank-mix will not control imazethapyr tolerant canola varieties (e.g. Clearfield varieties or other varieties with the Pursuit Smart trait).

<sup>4</sup>Apply to actively growing wild buckwheat at the cotyledon to 3-leaf stage. Control may be reduced under environmental stress. Large plants may regrow after treatment.

<b>Weeds Suppressed at 0.4 L/ha of VIKING Fluroxypyr Herbicide and 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go Herbicide:</b>	
Canada thistle <sup>5</sup>	sow thistle <sup>5</sup>
round-leaved mallow (2-6 leaf) <sup>6</sup>	stork's bill (2-6 leaf stage)
scentless chamomile	toadflax (up to 15 cm) <sup>7</sup>

<sup>5</sup>Apply when most of 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>6</sup>Apply to actively growing round-leaved mallow. Will keep mallow stunted but may not be able to reduce overall populations.

<sup>7</sup>A control program for this weed includes chemical application and frequent tillage.

**Additional Weeds Controlled at 0.6 L/ha of VIKING Fluroxypyr Herbicide and 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go Herbicide:**

kochia (2-8 leaf; including Group 2 resistant biotypes)  
volunteer flax (1-12 cm)

**Additional Weeds Controlled and Suppressed at 0.8 L/ha VIKING Fluroxypyr Herbicide and 20 g/ha Refine Extra 75 DF Herbicide or Refine Extra 75 Toss-N-Go Herbicide, or 30 g/ha of Refine SG Herbicide or Refine SG Toss-N-Go Herbicide:**

<b>Weeds Controlled:</b>	<b>Weeds Suppressed:</b>
round-leaved mallow (1-6 leaf)	chickweed (up to 8 cm; including Group 2 resistant biotypes)

**Mixing Instructions**

Fill the tank to 1/3 full of clean water, and with the agitator running, add the 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 that 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. Add the required amount of **VIKING Fluroxypyr Herbicide** at a reduced agitation. Add the rest of the water and then add adjuvant. Use a spray volume of 100 L/ha.

**Pre-Harvest/Grazing Intervals**

- Livestock may not be grazed or fed crops within 7 days of application.
- Do not harvest the treated crop within 60 days of application.



**NOTE TO USER:** READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Viking Crop Production Partners Inc. under the User Requested Minor Use Label Expansion program. For these uses, Viking Crop Production Partners Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

#### **DIRECTIONS FOR USE**

**SEEDLING AND ESTABLISHED TALL FESCUE GROWN FOR SEED:** Make one application per year, as a group application only, for control of labeled weeds. Apply from the 4 leaf stage to flag leaf stage in a minimum of 100 L of water/ha. Do not harvest for forage or do not cut hay for forage.

**Application rates (Apply as a tank-mix only): VIKING Fluroxypyr Herbicide:** 0.6 L/ha; 2,4-D Ester Herbicide: 560 g a.e./ha

#### **CONTROL OF LABELED WEEDS IN SEEDLING AND ESTABLISHED FORAGE GRASSES GROWN FOR SEED IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA ONLY:**

Creeping Red Fescue  
Intermediate Wheat Grass  
Crested Wheat Grass  
Meadow Brome Grass  
Smooth Brome Grass  
Timothy

Apply one application per year in a spray volume of 100-200 L/ha to control labeled weeds in seedling (4 leaf to flag leaf) or established forage grasses. Application should be made postemergence when weeds are in the 2-4 leaf stage. Apply in a broadcast spray using a hydraulic boom ground sprayer.

**Application rates (Apply as a tank-mix only): VIKING Fluroxypyr Herbicide:** 0.6 L/ha; 2,4-D Ester Herbicide: 560 g a.e./ha

Do not harvest for forage or do not cut hay for forage.

Do not harvest treated crop within 60 days after application.

Refer to the main **VIKING Fluroxypyr Herbicide** and 2,4-D Ester Herbicide labels for additional details and instructions, including preharvest intervals, before using.

**READ THE ROTATIONAL CROPPING RESTRICTIONS ON THE FULL LABELS BEFORE USING THIS PRODUCT.**

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, **VIKING Fluroxypyr Herbicide** is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **VIKING Fluroxypyr 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 **VIKING Fluroxypyr Herbicide** or other Group 4 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and

timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.

- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Viking Crop Production Partners Inc. at 1-587-743-1029.

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.

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