

2023-03-09
2023-0124
Container Label



VIKING Flucarbazone Herbicide

GROUP	2	HERBICIDE
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70% WETTABLE GRANULAR HERBICIDE

COMMERCIAL (AGRICULTURAL)

FOR SALE AND USE IN MANITOBA, SASKATCHEWAN, ALBERTA AND INTERIOR OF BRITISH COLUMBIA
(INCLUDING THE PEACE RIVER REGION) ONLY.

For preplant, preemergence and postemergence application on Spring wheat (excluding Durum wheat), and for post-emergence application on Spring wheat (including Durum wheat) for control of wild oat, green foxtail, volunteer tame oat, and certain broadleaf weeds.

REGISTRATION NO: 34739 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Flucarbazone 66% (present as flucarbazone-sodium)

NET CONTENTS: 300 GRAMS to 600 kg

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

WARNING – EYE AND SKIN IRRITANT

STORE IN A COOL, DRY PLACE

For product information call: 1-587-743-1029

**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.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on this label. It is an offence under the *PEST CONTROL PRODUCTS ACT* to use this product in a way that is inconsistent with the directions on the label.

PRECAUTIONS

Causes eye irritation. DO NOT get in eyes. May irritate skin. Avoid contact with skin.

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

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

KEEP OUT OF REACH OF CHILDREN.

PROTECTIVE CLOTHING

Wear coveralls, a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing and loading. Gloves are not required during application within a closed cab.

Read and follow handling precautions and protective clothing recommendations on broadleaf herbicide and surfactant tank-mix partner labels. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep PPE apart from other laundry and wash separately.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID

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 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.

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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

No specific antidote is available. Treat the patient symptomatically.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants. 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.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Store this product away from food or feed. Store in original container and out of reach of children, preferably in a locked storage area. **VIKING Flucarbazone Herbicide** is not affected by freezing.

SPILL CLEAN-UP: Follow safety precautions as directed for handling the product. Sweep spilled product with a broom and shovel into tightly closable container. If on a floor or hard surface, wash the surface or floor with detergent and water, then rinse. If on soil, collect surface soil contaminated with the product. If the product is clean, it may be used; otherwise, follow the DISPOSAL instructions.

DISPOSAL:

Recyclable Container 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 Container Disposal: 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.

Disposal of Unused, Unwanted Product: 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.

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

Booklet Label



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PRODUCT INFORMATION

VIKING Flucarbazone Herbicide is a selective herbicide for use at preplant, preemergence and postemergence timings in spring wheat (hard red spring, Canada Prairie spring, soft white spring, and extra strong or utility) and at postemergence timings only in durum wheat.

VIKING Flucarbazone Herbicide applied postemergence must be tank mixed with a surfactant listed on this label. For broader spectrum activity, VIKING Flucarbazone Herbicide may be tank mixed with a broadleaf herbicide listed on this label. See TANK MIXES section for recommended products.

VIKING Flucarbazone Herbicide is absorbed by foliage and roots of wild oat, green foxtail and certain broadleaf weeds. These weeds cease growth soon after application, removing the competitive effects of susceptible weeds. However complete weed control may not be seen for one to two weeks.

VIKING Flucarbazone Herbicide will control wild oat biotypes which have developed resistance to ACCase (Group 1) and triallate (Group 8) herbicides. It will also control green foxtail biotypes resistant to ACCase (Group 1) and dinitroaniline (Group 3) herbicides.

One 567 gram jug contains enough **VIKING Flucarbazone Herbicide** to treat 13-26 hectares (33-66 acres) depending on the target weeds to be controlled. For weeds controlled and staging of application for each rate refer to the recommended application tables.

567 g Jug Treats the Following:		
Use Rate	Acres	Hectares
21.5 g/ha	66	26
28.5 g/ha	50	20
35.7 g/ha	40	16
43.0 g/ha	33	13

DIRECTIONS FOR USE

Read the entire DIRECTIONS FOR USE before using **VIKING Flucarbazone Herbicide**.

- **Ground Application only. DO NOT APPLY USING AERIAL APPLICATION EQUIPMENT.**
- Do not mix, load or clean spray equipment within 10 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.
- Buffer Zones: Overspray or drift to sensitive habitats should be avoided. A buffer zone of 20 metres is required between the downwind edge of the boom and the closest edge of sensitive terrestrial habitats including forested areas, shelter belts, woodlots, hedgerows, and shrublands. A buffer zone of 35 metres is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats

including sloughs, coulees, ponds, prairie potholes, lakes, rivers, streams, wetlands, and wildlife habitat at the edge of these bodies of water.

- 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.
- 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.
- Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 15 km/hr at 2 metres high above ground at the site of application.
- **Do not apply postemergence treatments if it is raining or if rainfall is expected within one (1) hour after application.**
- Do not graze treated fields or use green crop for feed. Wheat grain or straw from harvested treated fields may be fed to livestock.
- Do not allow this chemical to drift on to other crops, especially canola, tame oats, or other non-target crops.
- Observe minimum interval to harvest of 80 days after treatment.
- Do not treat wheat underseeded to legumes.
- The maximum rate of glyphosate applied when tank mixed with **VIKING Flucarbazone Herbicide** for pre-plant, pre-emergence is 450 g ae/ha.

TIMING OF APPLICATION

VIKING Flucarbazone Herbicide can be applied up to 1 week prior to planting, or immediately after planting prior to crop emergence in spring wheat (excluding durum wheat), and postemergence in all types of spring wheat (including durum wheat).

Do not apply **VIKING Flucarbazone Herbicide** before crop emergence is complete in durum wheat.

Research has demonstrated that optimum wheat yield is obtained by early removal of target weeds prior to tillering of wheat. In postemergence use, apply **VIKING Flucarbazone Herbicide** to wheat that has a minimum of one leaf to a maximum of four leaves on the main stem, plus two tillers. Application beyond this stage may result in yield losses due to weed competition.

PREPLANT, POSTPLANT PREEMERGENCE AND PREPLANT OR POSTPLANT PREEMERGENCE FOLLOWED BY POSTEMERGENCE USE DIRECTIONS FOR SPRING WHEAT (EXCLUDING DURUM WHEAT)

Use of **VIKING Flucarbazone Herbicide** as a preplant or post-plant preemergence application only or in combination with an additional postemergence application of **VIKING Flucarbazone Herbicide** allows for early weed removal and reduced weed competition with wheat.

Do not apply more than 43 g/ha of **VIKING Flucarbazone Herbicide** (30 g ai/ha) per growing season.

Application Timing	Application Rate (g product/ha)	Weeds Controlled or Suppressed
Preplant or post-plant preemergence ¹	21.5	Control: volunteer canola excluding imidazolinone tolerant (Clearfield) canola varieties Suppression: wild oat

	28.5	Weeds controlled or suppressed with 21.5 g/ha plus Suppression: wild mustard, green foxtail
Preplant or post-plant preemergence followed by Postemergence ^{2,3} VIKING Flucarbazone Herbicide	14.5 + 28.5	Control: green foxtail, wild oat, volunteer canola excluding imidazolinone tolerant (Clearfield) canola varieties
	21.5 + 21.5	
	28.5 + 14.5	

¹ Crop injury may be observed following pre-plant or post-plant pre-emergence applications, but yield should be unaffected.

² For postemergence applications, use a registered non-ionic surfactant such as Agral® 90, AgSurf®, etc. at a rate of 0.25% v/v (0.25L per 100L total spray solution) according to use directions under POSTEMERGENCE USE DIRECTIONS on the **VIKING Flucarbazone Herbicide** label.

³ For tank mix directions and control of other weeds using postemergence applications, refer to the POSTEMERGENCE USE DIRECTIONS on the **VIKING Flucarbazone Herbicide** label.

GLYPHOSATE TANK MIXTURE

VIKING Flucarbazone Herbicide may be tank mixed with glyphosate present as the isopropylamine or potassium salt when applied preplant or post-plant preemergence. Refer to the appropriate product label for use directions.

POSTEMERGENCE USE DIRECTIONS IN SPRING AND DURUM WHEAT RECOMMENDED APPLICATIONS

CROP APPLICATION TIMING		
CROP	GROWTH STAGE	REMARKS
Spring Wheat Durum Wheat	1 leaf to 6 total leaves	1 leaf to 4 leaves on main stem, plus 2 tillers

GRASS WEED CONTROL IN SPRING AND DURUM WHEAT			
CROP	RATE	WEEDS	REMARKS
Spring Wheat Including: hard red spring, Canada Prairie spring, soft white	21.5 g/ha	Green Foxtail (Wild millet)	Green foxtail should be no larger than 4-leaf, 2 tillers.
	28.5 g/ha	Weeds controlled at 21.5 g/ha plus Wild Oat Volunteer Tame Oat	Wild oat should be no larger than 4-leaf, 2 tillers. Use 28.5 g/ha when wild oat infestations are below 100 plants/m ² . Volunteer tame oat should be no larger than 4-leaf, 2 tillers.

spring and extra strong (utility) wheat Durum Wheat	35.7 g/ha	Weeds controlled at 28.5 g/ha plus Wild Oat	Wild oat should be no larger than 4-leaf, 2 tillers. Use 35.7 g/ha when wild oat infestations are greater than 100 plants/m ² and plants are actively growing under ideal environmental conditions.
	43 g/ha	Weeds controlled at 35.7 g/ha plus Wild Oat	Wild oat should be no larger than 4-leaf, 2 tillers. Use 43 g/ha when wild oat infestations are greater than 100 plants/m ² and when plants are not actively growing due to poor environmental conditions or when tank mixing with a product that contains dicamba. [Refer to the TANK MIXES section listed on this label.]

BROADLEAF WEED CONTROL IN SPRING AND DURUM WHEAT		
WEED	RATE	REMARKS
Redroot Pigweed (<i>Amaranthus retroflexus</i>)	28.5 g/ha	For control of redroot pigweed, apply VIKING Flucarbazone Herbicide to weeds at the 2 to 6 leaf stage.
Wild Mustard (<i>Brassica kaber</i>)		For control of wild mustard apply VIKING Flucarbazone Herbicide to weeds at the 2 to 6 leaf stage
Stinkweed (<i>Thlaspi arvense</i>)		For control of stinkweed apply VIKING Flucarbazone Herbicide to weeds at the 2 to 9 leaf stage
Volunteer Canola (<i>Brassica napus</i>)		For control of volunteer canola apply VIKING Flucarbazone Herbicide to weeds at the 2 to 6 leaf stage Will not control imidazolinone-tolerant (CLEARFIELD®) canola varieties
Green Smartweed (<i>Polygonum scabrum Moench.</i>)		For control of green smartweed apply VIKING Flucarbazone Herbicide to weeds at the 2 to 6 leaf stage
Shepherd's Purse (<i>Capsella bursa-pastoris</i>)		For control of shepherd's purse, apply VIKING Flucarbazone Herbicide to weeds at the 2 to 6 leaf stage.

Wheat exposed to water-logged or saturated soils, or temperature extremes such as heat or freezing weather, or drought, low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control also may be reduced by these same conditions.

TANK MIXES

Use 28.5 g/ha when wild oat populations are below 100 plants/m² and when plants are actively growing. For broader spectrum control of both annual grasses and broadleaf weeds, **VIKING Flucarbazone Herbicide** may be mixed with one of the broadleaf herbicides plus a surfactant listed in the following table.

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 all product labels.

APPROVED TANK MIX PARTNERS IN SPRING WHEAT						
BROADLEAF HERBICIDE TANK MIX PARTNER	BROADLEAF HERBICIDE PRODUCT RATES	VIKING FLUCARBAZONE HERBICIDE RATE			SURFACTANTS (0.25% v/v or 0.25 L/100L)	
		WILD OAT AND GREEN FOXTAIL	WILD OAT ONLY	GREEN FOXTAIL ONLY***		
1	2,4-D Amine	up to 560 g ae/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Surf 92, Super Spreader, LI 700® with LECl-TECH, Agral 90, Ag-Surf
2	2,4-D Ester	up to 560 g ae/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Surf 92, Super Spreader, LI 700 with LECl-TECH, Agral 90, Ag-Surf
3	**Ally® + 2,4-D Amine	5 or 7.5 g/ha Ally + up to 560 g ae/ha 2,4-D Amine	***43 g/ha	***28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
4	**Ally + 2,4-D Ester	5 or 7.5 g/ha Ally + up to 560 g ae/ha 2,4-D Ester	***43 g/ha	***28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
5	Attain™ Herbicide Tank Mix	0.6 L/ha Attain A + 1 L/ha Attain B	***43 g/ha	***28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
6	Buctril® M	1 L/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Surf 92, Super Spreader, LI 700 with LECl-TECH, Agral 90, Ag-Surf
7	Curtail® M	1.5 – 2.0 L/ha	***43 g/ha	***28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf

APPROVED TANK MIX PARTNERS IN SPRING WHEAT

BROADLEAF HERBICIDE TANK MIX PARTNER		BROADLEAF HERBICIDE PRODUCT RATES	VIKING FLUCARBAZONE HERBICIDE RATE			SURFACTANTS (0.25% v/v or 0.25 L/100L)
			WILD OAT AND GREEN FOXTAIL	WILD OAT ONLY	GREEN FOXTAIL ONLY***	
8	DyVel®	1.25 L/ha	43 g/ha	Do Not Use	21.5 g/ha	Agral 90, Ag-Surf
9	*DyVel DSP	850 mL/ha	43 g/ha	Do Not Use	21.5 g/ha	Agral 90, Ag-Surf
10	Estaprop® Dichlorprop-DX	1.75 L/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Surf 92, Super Spreader, LI 700 with LECI- TECH, Agral 90, Ag-Surf
11	Frontline™ 2,4-D XC Herbicide Tank-Mix	100 ml/ha Frontline 2,4D XC A + 1.0 L/ha Frontline 2,4-D XC B	43 g/ha	28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
12						
13	MCPA Amine	up to 560 g ae/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
14	MCPA Ester	up to 560 g ae/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
15	Pardner®	1 L/ha	43 g/ha	Do Not Use	21.5 g/ha	Agral 90, Ag-Surf
16	Prestige™ XC Herbicide Tank-Mix	0.8 L/ha Prestige XC A + 2.0 L/ha Prestige XC B	***43 g/ha	***28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
17	** Refine Extra® + 2,4-D Amine	20 g/ha Refine Extra + up to 560 g ae/ha 2,4-D Amine	43 g/ha	28.5 g/ha	21.5 g/ha	Surf 92, Super Spreader, LI 700 with LECI-TECH, Agral 90,Ag-Surf
18	** Refine Extra + 2,4-D Ester	20 g/ha Refine Extra + up to 560 g ae/ha 2,4-D Ester	43 g/ha	28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
19						
20	Spectrum™ Herbicide Tank-Mix	100 mL/ha Spectrum A + 1.5 L/ha Spectrum B	43 g/ha	28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
21	Thumper®	1 L/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Surf 92, Super Spreader,

APPROVED TANK MIX PARTNERS IN DURUM WHEAT						
BROADLEAF HERBICIDE TANK MIX PARTNER		BROADLEAF HERBICIDE PRODUCT RATES	VIKING FLUCARBAZONE HERBICIDE RATE***			SURFACTANTS (0.25% v/v or 0.25 L/100L)
			WILD OAT AND GREEN FOXTAIL	WILD OAT ONLY	GREEN FOXTAIL ONLY	
1	2,4-D Amine	420 g ae/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
2	2,4-D Ester	420 g ae/ha	43 g/ha	28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf
3						
4	Spectrum Herbicide Tank-Mix	100 mL/ha Spectrum A + 1.5 L/ha Spectrum B	43 g/ha	28.5 g/ha	21.5 g/ha	Agral 90, Ag-Surf

NOTE:

* Reduction in wild oat control may be observed with this tank mix partner.

** Addition of a second surfactant is not required for **VIKING Flucarbazone Herbicide** tank mixes with the herbicides Ally and Refine Extra. Use only one of the recommended surfactants from the **VIKING Flucarbazone Herbicide** label at an application rate of 0.25% v/v (0.25 L per 100 L total spray solution).

*** Apply specified rate in at least 100 L of water per hectare (45 L/A or 10 gallons/A).

MIXING INSTRUCTIONS

1. Ensure the spray tank is clean. In-line strainers and nozzle screens should be clean and 50-mesh or coarser.
2. Fill the spray tank 1/3 to 1/2 full with clean water and begin agitation or bypass.
3. Add the appropriate **VIKING Flucarbazone Herbicide** rate directly to the spray tank. Vigorous agitation is required to dissolve the **VIKING Flucarbazone Herbicide**. Maintain sufficient agitation during both mixing and application.
4. Add the broadleaf weed herbicide.
5. Add the surfactant, then complete filling tank with balance of water needed.

SPRAYING INSTRUCTIONS

Unless otherwise specified in the tank mix partner section of this label, apply in a spray volume of 50 – 100 L/ha (22.5 – 45 L/A or 5 – 10 gallons/A) at 207-345 kPa (30-50 PSI) pressure to ensure proper weed coverage.

Flat fan nozzles of 80 ° or 110 ° are recommended for optimum coverage. Do not use floodjet nozzle or control droplet application equipment. Nozzles may be oriented 45 ° forward to enhance crop penetration and to give better weed coverage.

Field sprayer application

DO NOT apply during period 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) medium classification. Boom height must be 60 cm or less above the crop or ground.

SPRAYER CLEAN-UP

1. Drain the tank and thoroughly rinse spray tank, boom and hoses with clean water. Pay particular attention to flushing out any visible deposits.
2. Fill the tank with clean water and 1% v/v (1 L/100L) household ammonia. Flush the hoses, boom and nozzles with the cleaning solution. Circulate for at least 15 minutes. Flush hoses, boom and nozzles once more, then drain the tank.
3. Clean nozzles and screens in a separate container using the ammonia and water.
4. Repeat #2.
5. Rinse tank, boom and hoses with clean water. Do not clean sprayer near desirable vegetation, wells, or other water sources.
6. Dispose of all rinsings in accordance with provincial regulations; check tank mix partner label for any additional clean-up procedures.

ROTATIONAL CROPS

The following crops may be planted 11 months after an application of **VIKING Flucarbazone Herbicide**.

Soil Zones and Rotational Crops			
Gray-Wooded	Black	Dark Brown	Brown
Spring wheat Barley Canola Field peas*	Spring wheat Barley Canola Field peas* Field bean Flax Durum wheat	Spring wheat Barley Canola Field peas* Flax Durum wheat	Spring wheat

* Field peas can be successfully grown the year following a **VIKING Flucarbazone Herbicide** application providing the following three criteria are all met.

1. Soil pH must be below 7.5
2. Organic Matter content must be above 4%.
3. Precipitation must be equal to or above the 10-year average (minimum 1 00mm within 60 days of application in year of application).

Or, fields can be summer fallowed.

As **VIKING Flucarbazone Herbicide** is degraded by soil microbes, environmental conditions that decrease microbial activity must be considered when making rotational cropping decisions. These environmental conditions include prolonged drought and/or cold temperatures within the following cropping season, as well as soils with both low OM (less than 2%) and high pH (greater than 7.5). If these conditions exist, a soil bioassay may be necessary to ensure rotational crop safety.

Do not plant crops other than those listed above in the year following application of **VIKING Flucarbazone Herbicide** on wheat.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **VIKING Flucarbazone Herbicide** is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **VIKING Flucarbazone Herbicide** and other Group 2 wild oat 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 Flucarbazone Herbicide** or other Group 2 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 special crops and weed biotypes.
- For further information or to report suspected resistance, contact Viking Crop Production Partners Inc. at 1-587-743-1029.

PRECAUTIONS

Causes eye irritation. DO NOT get in eyes. May irritate skin. Avoid contact with skin.

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

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

KEEP OUT OF REACH OF CHILDREN.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. 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.

PROTECTIVE CLOTHING

Wear coveralls, a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing and loading. Gloves are not required during application within a closed cab.

Read and follow handling precautions and protective clothing recommendations on broadleaf herbicide and surfactant tank-mix partner labels. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep PPE apart from other laundry and wash separately.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID

If swallowed: Call a poison control centre 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 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.

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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

No specific antidote is available. Treat the patient symptomatically.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Store this product away from food or feed. Store in original container and out of reach of children, preferably in a locked storage area. **VIKING Flucarbazone Herbicide** is not affected by freezing.

SPILL CLEAN-UP: Follow safety precautions as directed for handling the product. Sweep spilled product with a broom and shovel in to tightly closable container. If on a floor or hard surface, wash the surface or floor with detergent and water, then rinse. If on soil, collect surface soil contaminated with the product. If the product is clean, it may be used; otherwise, follow the DISPOSAL instructions.

DISPOSAL:

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. 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 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).

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

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.

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

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