

2025-2648  
2025-10-03

**\*Container Label\***

GROUP	<b>14</b>	HERBICIDE
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**VIKING™ Flumioxazin Herbicide**

WETTABLE GRANULES

COMMERCIAL (AGRICULTURAL)

PRE-EMERGENCE WEED CONTROL IN LENTILS [SMALL, RED AND LARGE GREEN VARIETIES]

**REGISTRATION NO.:** 35664 PEST CONTROL PRODUCTS ACT

**ACTIVE INGREDIENT:** Flumioxazin.....51%

**NET CONTENTS:** 500 g – 25 kg

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



**CAUTION POISON**

**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.

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## 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.

## FIRST AID:

**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 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 the person to fresh air. If the 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 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.

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

## TOXICOLOGICAL INFORMATION

There is no specific antidote for this product. Apply symptomatic therapy.

## PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Avoid breathing dust and spray mist. Avoid contact with skin, eyes or clothing. Harmful if inhaled.

Do not eat, drink or smoke during work. Wash hands and face thoroughly before eating, drinking, smoking, chewing gum, or using the toilet. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes. Remove clothing immediately if pesticide gets inside. Wash thoroughly and put on clean clothing. After work, change clothing and wash the entire body thoroughly. Wash contaminated working clothes separately from other laundry before reuse.

Follow the personal protective equipment, engineering controls, and restriction requirements for the appropriate mixer/loader and applicator scenarios as described in the table below:

Equipment	Personal Protective Equipment		Maximum amount of product handled per day per person
	Mixer/Loader/Clean-up and Repair	Applicator	
Groundboom	Chemical-resistant coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks,	<b>Open cab:</b> Coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes.	65 kg

	chemical-resistant footwear, a respirator NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides OR a NIOSH-approved canister approved for pesticides and protective eyewear (goggles or face shield).	<b>Closed Cab:</b> Long-sleeved shirt, long pants, socks and shoes. Gloves are not required.	76 kg
Right-of-Way-sprayer	Long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and protective eyewear (goggles or face shield).	Chemical-resistant coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and chemical-resistant footwear.	7 kg
Mechanically-pressurized handgun	Chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides, or a NIOSH-approved canister approved for pesticides. Wear protective eyewear (goggles or face shield) during mixing, loading clean-up and repair.		2.5 kg
Backpack & Manually-pressurized handwand	Long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.		Not applicable

Do not apply when weather conditions favour spray drift from treated areas. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Keep all unprotected persons out of operating areas, or vicinity where there may be drift.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Do not apply to fine-textured soils.

Pregrazing Intervals:

Following treatment with, follow these grazing restrictions:

**DO NOT** graze, cut or feed treated crops to livestock.

**DO NOT** apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.

**DO NOT** apply within 100 metres of non-dormant pears.

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**DO NOT** apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.

### **ENVIRONMENTAL PRECAUTIONS**

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE. Toxic to small wild mammals. Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. 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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

### **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 or territorial requirements.

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup of spills.

### **STORAGE**

**DO NOT** contaminate water, food or feed by storage. Keep pesticide in original container. Store in a cool, dry, secure place. **DO NOT** put formulation or dilute spray solution into food or drink containers. **DO NOT** store or transport near feed or food. Not for use or storage in or around the home. Store this product away from food or feed.

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GROUP	<b>14</b>	HERBICIDE
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**VIKING™ Flumioxazin Herbicide**

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PRE-EMERGENCE WEED CONTROL IN LENTILS (SMALL RED AND LARGE GREEN VARIETIES)

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## TOXICOLOGICAL INFORMATION

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## PRECAUTIONS

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**DO NOT** eat, drink or smoke during work. Wash hands and face thoroughly before eating, drinking, smoking, chewing gum, or using the toilet. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes. Remove clothing immediately if pesticide gets inside. Wash thoroughly and put on clean clothing. After work, change clothing and wash entire body thoroughly. Wash contaminated working clothes separately from other laundry before reuse.

Follow the personal protective equipment, engineering controls, and restriction requirements for the appropriate mixer/loader and applicator scenarios as described in the table below:

Equipment	Personal Protective Equipment		Maximum amount of product handled per day per person
	Mixer/Loader/Clean-up and Repair	Applicator	
Groundboom	Chemical-resistant coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks,	<b>Open cab:</b> Coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes.	65 kg

	chemical-resistant footwear, a respirator NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides OR a NIOSH-approved canister approved for pesticides and protective eyewear (goggles or face shield).	<b>Closed Cab:</b> Long-sleeved shirt, long pants, socks and shoes. Gloves are not required.	76 kg
Right-of-Way-sprayer	Long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and protective eyewear (goggles or face shield).	Chemical-resistant coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and chemical-resistant footwear.	7 kg
Mechanically-pressurized handgun	Chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides, or a NIOSH-approved canister approved for pesticides. Wear protective eyewear (goggles or face shield) during mixing, loading clean-up and repair.		2.5 kg
Backpack & Manually-pressurized handwand	Long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.		Not applicable

**DO NOT** apply when weather conditions favour spray drift from treated areas. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Keep all unprotected persons out of operating areas, or vicinity where there may be drift.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

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

**DO NOT** apply to fine-textured soils.

Pregrazing Intervals:

Following treatment with **VIKING Flumioxazin Herbicide**, follow these grazing restrictions:

**DO NOT** graze, cut or feed treated crops to livestock.

**DO NOT** apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.

**DO NOT** apply within 100 metres of non-dormant pears.

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**DO NOT** apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.

### **ENVIRONMENTAL PRECAUTIONS**

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE. Toxic to small wild mammals. Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. 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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

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### **STORAGE**

**DO NOT** contaminate water, food or feed by storage. Keep pesticide in original container. Store in a cool, dry, secure place. **DO NOT** put formulation or dilute spray solution into food or drink containers. **DO NOT** store or transport near feed or food. Not for use or storage in or around the home. Store this product away from food or feed.

### **GENERAL INFORMATION**

**VIKING Flumioxazin Herbicide** provides residual control of susceptible weeds in lentils [small red and large green varieties], when used in accordance with this label. **VIKING Flumioxazin Herbicide** is effective as a preemergence herbicide, for control of selected grass and broadleaf weeds. **VIKING Flumioxazin Herbicide** controls weeds by inhibiting protoporphyrinogen oxidase, an essential enzyme required by plants for chlorophyll biosynthesis. Seedling weeds are controlled preemergence when exposed to sunlight following contact with the soil applied herbicide. Preemergence weed control with **VIKING Flumioxazin Herbicide** is most effective when applied to clean, weed-free soil surfaces. Disturbing soil surfaces may reduce herbicide efficacy.

**VIKING Flumioxazin Herbicide** offers residual control of susceptible grass and broadleaf weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

**TANK MIXES**

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.

DO NOT tank mix **VIKING Flumioxazin Herbicide**, or use in the same field, with flufenacet, metolachlor or s-metolachlor, dimethanamid or dimethanamid-p, or acetochlor, as crop injury may occur.

**Rotational Restrictions**

The following rotational crops may be planted after applying **VIKING Flumioxazin Herbicide** at the listed rate. Planting earlier than the recommended rotational interval may result in crop injury.

<b>VIKING Flumioxazin Herbicide Rate</b>	<b>Crop</b>	<b>Rotational Interval</b>
140 g/ha	Soybean	Immediately
	Winter wheat	4 months
	Lentils [small red and large green varieties]	7 days
	Sorghum, dry common beans <sup>1</sup> , and Canola	9 months
	Alfalfa and barley	11 months
	All other crops not listed <sup>2</sup>	12 months
210 g/ha	Soybean	Immediately
	Winter wheat	4 months
	Lentils [small red and large green varieties]	6 months
	Sorghum, dry common beans <sup>1</sup>	9 months
	Alfalfa, barley, and canola	11 months
	All other crops not listed <sup>2</sup>	12 months

<sup>1</sup> Common bean varieties vary in their tolerance to herbicides, including to **VIKING Flumioxazin Herbicide**. Since not all common bean varieties grown as rotational crops have been tested for tolerance to **VIKING Flumioxazin Herbicide**, first seeding common bean varieties to the field previously treated with **VIKING Flumioxazin Herbicide** should be limited to a

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small area to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on the tolerance of specific varieties of common bean as a rotational crop seeded to field treated with **VIKING Flumioxazin Herbicide**.

<sup>2</sup> Successful soil bioassay must be performed prior to planting crops not listed.

## GENERAL DIRECTIONS FOR USE

### SPRAYER AND APPLICATION INFORMATION

Apply using ground application equipment only. Before applying **VIKING Flumioxazin Herbicide**, start with clean, well maintained application equipment. Nozzles should be uniformly spaced on boom and frequently checked for accuracy. For broadcast application, apply **VIKING Flumioxazin Herbicide** with ground equipment using standard commercial sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. When banding, use proportionately less water and **VIKING Flumioxazin Herbicide** per hectare.

Equipment with **VIKING Flumioxazin Herbicide** residues remaining in the system may result in crop injury to the subsequently treated crop. Spray equipment used to apply **VIKING Flumioxazin Herbicide** should not be used to apply other materials to any plant foliage. Spray equipment must be cleaned each day following **VIKING Flumioxazin Herbicide** application. After **VIKING Flumioxazin Herbicide** is applied, the following steps must be used to clean the spray equipment:

1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens. Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
2. Top off tank, add 4 L of 3% household ammonia for every 400 L of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes.
3. Drain tank completely.
4. Add enough clean water to the spray tank to allow all hoses, booms, screens and nozzles to be flushed for 3 minutes.
5. Remove all nozzles and screens and rinse them with clean water.
6. **DO NOT** contaminate water, food or feed by cleaning of equipment.

### MIXING INSTRUCTIONS

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water. Engage gentle agitation.
2. While agitating, slowly add **VIKING Flumioxazin Herbicide** to the spray tank. Agitation should create a rippling or rolling action on the water surface.
3. If tank mixing **VIKING Flumioxazin Herbicide** with other herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
4. Add adjuvants or surfactants, if recommended.
5. Fill spray tank to desired level with water. **Agitation should continue until spray solution has been applied.**
6. Mix only the amount of spray solution that can be applied the day of mixing. **VIKING Flumioxazin Herbicide** should be applied within 6 hours of mixing.

As this pesticide 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 wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply with sprays with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

Use caution when applying under circumstances where possible drift to unprotected persons or food, forage or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption can occur.

Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray pressure.

Make application when the wind velocity favours on-target product deposition.

DO NOT make applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.

All ground application equipment must be properly maintained and calibrated using appropriate carriers.

**SPRAY BUFFER ZONES:**

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage.

For application to rights-of-way, spray buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified spray buffer zones for protection of sensitive terrestrial and aquatic habitats.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Lentils	3	1	1	0	10

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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 (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

### **DIRECTIONS FOR USE IN LENTIL (Small Red and Large Green Varieties)**

**VIKING Flumioxazin Herbicide** offers residual control of susceptible broadleaf and grass weeds listed on this label and assists in the control of acetolactate synthase (ALS) resistant weeds. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content.

Moisture is necessary to activate **VIKING Flumioxazin Herbicide** in soil for residual weed control. Dry weather following applications of **VIKING Flumioxazin Herbicide** may reduce effectiveness. However, when adequate moisture is received after dry conditions, **VIKING Flumioxazin Herbicide** will control susceptible germinating weeds. **VIKING Flumioxazin Herbicide** may not control weeds that germinate after application but before activating rainfall/irrigation or plants that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a **VIKING Flumioxazin Herbicide** application, weed control may be improved by irrigation with at least ½ to 1 cm of water.

Control will be reduced if there is mechanical incorporation into the soil or if emerged weeds are controlled by cultivation.

**DO NOT** perform any tillage operations after application or weed control will be reduced.

Apply only once during a single growing season.

**DO NOT** by air. Apply using ground application equipment only.

### **APPLICATION TIMING**

#### **Preemergence Applications (Spring)**

**VIKING Flumioxazin Herbicide** preemergent application provides control of susceptible weeds in small red and large green varieties of lentils. Apply **VIKING Flumioxazin Herbicide** with ground equipment as early in the season as possible, a minimum of 7 days prior to planting small red or large green lentil varieties into no-till or minimum tillage fields. Lentils must be planted a minimum of 2.5 cm (1 inch) deep to maximize crop safety. Receiving an activating rainfall or irrigating with at least 1 cm of water prior to seeding will help minimize the potential for crop injury.

Do not apply other residual herbicides with, before, or after applying **VIKING Flumioxazin Herbicide** in the spring prior to seeding lentils, as crop injury may result. Areas of fields with combinations of low organic matter, high pH, and or high sand content may exhibit crop injury symptoms. The use of optimal agronomics to support plant establishment will reduce crop injury potential - high quality seed, seed treatment, and using optimal seeding rates will minimize crop injury potential.

**Fall Burndown Applications (With Glyphosate)**

**VIKING Flumioxazin Herbicide**, applied as part of a burndown program, may be used for residual weed control where lentils will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as the isopropyl amine or potassium salt. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

Application should be made in the fall, just before freeze-up and when winter annuals and perennial weeds are still growing to allow for optimum herbicide absorption and activity. Applications made after a killing frost will result in reduced perennial and winter annual weed control. Do not apply to snow covered or frozen soil. Abnormally warm winters may reduce the length of weed control observed in the spring.

**CROP TOLERANCE**

Lentil varieties vary in their tolerance to **VIKING Flumioxazin Herbicide**. Testing has shown that small-seeded red and large-seeded green varieties are most tolerant to applications of **VIKING Flumioxazin Herbicide**. Other seed classes of lentils should not be planted into areas treated with **VIKING Flumioxazin Herbicide**.

Environmental conditions, such as cold, saturated soils, and abnormally cool wet weather after seeding may also increase lentil injury following a spring or fall application of **VIKING Flumioxazin Herbicide**. Crop injury symptoms are generally transient and will reduce as growing conditions return to normal. **VIKING Flumioxazin Herbicide** is a very active herbicide and the user should exercise caution until gaining familiarity with this product.

<b>LENTIL [Small Red and Large Green Varieties] – Application Rates and Weed Claims for FALL APPLICATION</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb’s-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> )  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> )	Coarse- textured, with <5% organic matter	140	Preemergence: Apply prior to weed emergence.
	Medium- textured, with <5% organic matter	210	Postemergence: When weeds are already emerged, apply <b>VIKING Flumioxazin Herbicide</b> as a tank mix <sup>2</sup> with a glyphosate product, present as the isopropyl amine or potassium salt, at 1.2 kg a.e./ha.

<sup>1</sup> Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup> Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

<b>LENTIL [Small Red and Large Green Varieties] – Application Rates and Weed Claims for SPRING APPLICATION</b>			
<b>WEEDS CONTROLLED</b>	<b>Soil Type<sup>1</sup></b>	<b>RATE (g/ha)</b>	<b>COMMENTS</b>
Redroot pigweed ( <i>Amaranthus retroflexus</i> ) Green pigweed ( <i>Amaranthus powellii</i> ) Common ragweed ( <i>Ambrosia artemisiifolia</i> ) Common lamb's-quarters ( <i>Chenopodium album</i> ) Hairy nightshade ( <i>Solanum sarachoides</i> ) Dandelion ( <i>Taraxacum officinale</i> ) Eastern black nightshade ( <i>Solanum ptycanthum</i> )  <i>Suppression only:</i> Green foxtail ( <i>Setaria viridis</i> )	Coarse- textured and medium-textured with <5% organic matter	140	Preemergence: Apply prior to weed emergence, and at minimum 7 days prior to planting lentils into no-till or minimum tillage fields.  Postemergence: When weeds are already emerged, apply <b>VIKING Flumioxazin Herbicide</b> as a tank mix <sup>2</sup> with a glyphosate product, present as the isopropyl amine or potassium salt, at 1.2 kg a.e./ha.

<sup>1</sup> Do not apply on soils with > 5% OM, or fine-textured soils.

<sup>2</sup> Refer to the respective tank mix partner label for additional recommendations, restrictions and precautions. Follow the most restrictive application directions for each of the tank mix partners.

### RESISTANT MANAGEMENT RECOMMENDATIONS

For resistance management, **VIKING Flumioxazin Herbicide** is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to **VIKING Flumioxazin Herbicide** and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

#### To delay herbicide resistance:

- Where possible, rotate the use of **VIKING Flumioxazin Herbicide** or other Group 14 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical 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

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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.

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