

GROUP	5	14	15	HERBICIDES
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# V-10448 Herbicide

SUSPENSION CONCENTRATE  
COMMERCIAL

**FOR CONTROL OR SUPPRESSION OF CERTAIN WEEDS IN LABELLED CROPS AND  
NON CROP AREAS**

ACTIVE INGREDIENT:	
Flumioxazin.....	59.8 g/L
Metribuzin.....	179.2 g/L
Pyroxasulfone.....	76.4 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3-one as a preservative at 0.0017% and 2-methyl-4-isothiazolin-3-one as a preservative at 0.0006% OR contains 1,2-benzisothiazolin-3-one as a preservative at 0.0386%.

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

REGISTRATION NO.: 34280 PEST CONTROL PRODUCTS ACT



CAUTION POISON

**Net Contents: 0.05 – Bulk Litres**

Valent Canada, Inc.  
201-230 Hanlon Creek Blvd.  
Guelph, ON N1C 0A1  
Phone: 519-767-9262

**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. 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.

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

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL OR POISONING CALL  
1-800-892-0099***

**TOXICOLOGICAL INFORMATION**

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

**PRECAUTIONS**

**KEEP OUT OF THE REACH OF CHILDREN.** Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin or clothing.

Application Equipment	<b><u>Personal Protective Equipment and Engineering Controls</u></b>	
	<b>Mixer/Loader/Clean-up and Repair</b>	<b>Applicator</b>
Groundboom	<b>Open mixing/loading:</b> Wear chemical-resistant coveralls over long-sleeved shirt, long pants, socks, chemical-resistant footwear and chemical-resistant gloves.	<b>Open cab:</b> Wear chemical-resistant coveralls over a long-sleeved shirt and long pants, socks, chemical-resistant footwear and chemical-resistant gloves.
		<b>Closed cab<sup>1</sup>:</b> Wear a long-sleeved shirt, long pants, socks and shoes. Gloves are not required within a closed cab.
Right-of-Way Sprayer	<b>Open mixing/loading:</b> Wear chemical-resistant coveralls over long-sleeved shirt, long pants, socks, chemical-resistant footwear and chemical-resistant gloves.	<b>Open cab:</b> Wear chemical-resistant coveralls over long-sleeved shirt, long pants, socks, chemical-resistant footwear and chemical-resistant gloves.
Manually-Pressurized Handheld Equipment.	<b>Open mixing/loading:</b> Wear a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves.	
Backpack Sprayer		
Mechanically-Pressurized Handheld Equipment	<b>Open mixing/loading and applying a maximum of 19.3 L of V-10448 per day:</b> Wear chemical-resistant coveralls over long-sleeved shirt, long pants, socks, chemical-resistant footwear, chemical-resistant gloves and a respirator with a NIOSH-approved organic-vapour removing cartridge with a prefilter approved for pesticides OR a NIOSH approved canister approved for pesticides.  <b>DO NOT</b> apply more than 19.3 L of V-10448 per day.	

<sup>1</sup> A closed cab provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab.

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.

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.

Do not apply by air.

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

In non-crop areas, DO NOT enter or allow entry into treated areas until the sprays have dried.

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

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.

Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.

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.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact Valent Canada, Inc.

Read and understand the entire label before opening this product. If you have any questions, call the manufacturer at 519-767-9262 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

#### **ENVIRONMENTAL PRECAUTIONS**

This product is toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

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

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter

strip between the treated area and the edge of the water body.

## DISPOSAL/DECONTAMINATION

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 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 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.

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

## RESISTANCE MANAGEMENT

For resistance management, please note that V-10448 Herbicide contains a Group 5, Group 14 and a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to V-10448 Herbicide and other Group 5, Group 14 and/or Group 15 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 V-10448 Herbicide or other Group 5, Group 14 and /or Group 15 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.

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- 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 and to report suspected resistance, contact Valent Canada at 519-767-9262.

## APPLICATION INFORMATION

**Shake V-10448 Herbicide well before use.**

**Spray equipment used to apply V-10448 Herbicide should not be used to apply other materials to any crop foliage, unless the proper cleanout procedure is followed. See “SPRAYER CLEANUP” for more information.**

### SPRAYER PREPARATION

Before applying V-10448 Herbicide, start with clean, well maintained application equipment. The spray tank, as well as all hoses and booms, must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. Some pesticides, including but not limited to, the sulfonylurea and phenoxy herbicides are active at very small amounts and can cause crop injury when applied to susceptible crops. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply V-10448 Herbicide. If two or more products were tank mixed prior to V-10448 Herbicide application, the most restrictive cleanup procedure should be followed.

### MIXING INSTRUCTIONS

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
2. While agitating, slowly add V-10448 Herbicide to the spray tank. Agitation should create a rippling or rolling action on the water surface.
3. If tank mixing V-10448 Herbicide with other labelled herbicides follow the WAMLEGS [Wettable powders/ flowable, Agitate Anti-foaming compounds/buffers, Microcapsule suspension, Liquid and soluble, Emulsifiable concentrates, High load Glyphosates, Surfactants] mixing order system:
  - 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 any required adjuvants.
5. Fill spray tank to desired level with water. **Agitation should continue until all spray solution has been applied.**
6. Mix only the amount of spray solution that can be applied the day of mixing. V-10448

Herbicide should be applied within 6 hours of mixing.

### **APPLICATION METHOD**

V-10448 Herbicide is applied by ground. Application equipment should be clean and in good repair. Nozzles should be uniformly spaced on boom and frequently checked for accuracy. Apply V-10448 Herbicide, and V-10448 Herbicide tank mixes, with ground equipment using standard commercial sprayers equipped with flat fan (preplant or preemergence applications only) designed to deliver the desired spray pressure and spray volume.

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

### **CARRIER VOLUME AND SPRAY PRESSURE**

**Preemergence Application (Conventional Tillage):** To ensure uniform coverage, use 100 to 300 L of spray solution per hectare for conventional tillage applications. Nozzle selection should meet manufacturer's volume and pressure recommendations for preemergence herbicide application.

**Burndown Application (Prior to Crop Emergence):** To ensure thorough coverage in burndown applications, use 150 to 600 L spray solution per hectare. Use 200 to 600 L per hectare if dense vegetation or heavy crop residue is present. Nozzle selection should meet manufacturer's volume and pressure recommendations for postemergence herbicide application. Do not use flood jet nozzles.

### **SPRAYER CLEANUP**

Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following V-10448 Herbicide application. After V-10448 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.
2. Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
3. Top off tank, add 3.8 litres of 3% household ammonia (or equivalent) for every 378.5 L of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes. If diaphragms are being used on the spray boom, loosen diaphragms before flushing the spray system, allowing cleaning solution to spray through the open diaphragm. If spray lines have any end caps, they must be loosened before flushing the system, allowing cleaning solution to spray through the loosened caps. To enhance removal of V-10448 Herbicide from the spray system, add a tank cleaner in place of ammonia and allow the cleaning solution to remain in the pressurized spray system (spray tank, hoses and boom) for 8 hours before flushing the system for a minimum of 15 minutes.
4. Drain tank completely.
5. Add enough clean water to the spray tank to allow all hoses, booms, screens and nozzles to be flushed for 2 minutes.
6. Remove all nozzles and screens and rinse them in clean water.

Spray equipment, including all tanks, hoses, booms, screens and nozzles, should be thoroughly cleaned before it is used to apply postemergence pesticides. Equipment with V-10448 Herbicide residue remaining in the system may result in crop injury to the subsequently treated crop.

## SPRAY BUFFER ZONES

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label .

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	soybean, chickpea, field pea, lentils, bare ground on non-crop areas, fall burndown and fallow land	4	2	1	1	10
	field corn, spring wheat	3	1	1	1	10

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. Spray buffer zones of 1 m CANNOT be modified.

## ROTATIONAL RESTRICTIONS

The following rotational crops may be planted after applying V-10448 Herbicide at the listed rate range. Planting earlier than the recommended rotational interval may result in crop injury.

V-10448 Herbicide rate	Crops	Rotational Intervals
1.17-1.75 L/ha	Soybean, chickpea, field pea	Immediately
	Field corn, spring wheat	7 days
	Winter wheat	4 months
	Lentil	6 months
	Other small grains* (including barley, durum wheat, and oats), alfalfa	11 months
	Successful soil bio-assay must be performed prior to planting crops not listed above.	

\*At rates higher than 1.17 L/ha, follow a 12 month rotational interval.

## GENERAL DIRECTIONS FOR USE

**When used in accordance with this label, V-10448 Herbicide:**

- Provides residual control of susceptible weeds in labeled crops and in fallow land.

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- Provides additional burndown activity when used as part of a burndown program in labeled crops and in fallow land.
- Can be used on farms for non-selective vegetation control to maintain bare ground non-crop areas that must be kept weed free.
- Can be used to maintain bare ground in non-crop areas.

### **Burndown Application (Spring or Fall)**

Apply V-10448 Herbicide as part of a burndown program to actively growing weeds. Applying V-10448 Herbicide under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply V-10448 Herbicide when weeds are under stress due to drought, excessive water, temperature extremes, disease or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. V-10448 Herbicide is most effective when applied under warm sunny conditions.

Burndown applications should be made in combination with other foliar herbicides such as glyphosate or other tank-mix partners.

Reduced residual weed control may occur when burndown applications are made to fields where heavy green crop and/or weed material exist.

### **Rainfastness**

V-10448 Herbicide is rainfast one hour after application. Do not apply V-10448 Herbicide if rain is expected within one hour of application or postemergence efficacy may be reduced. Rainfall after application will not reduce the efficacy of soil residual control and is required for product activation.

### **Soil Characteristics**

Application of V-10448 Herbicide to soils with high organic matter and/or high clay content may require higher dosages than soils with low organic matter and/or low clay content. Application to cloddy seedbeds can result in reduced weed control.

### **CROP FAILURE**

If the crop treated with V-10448 Herbicide is lost due to a catastrophe, such as hail or other forms of inclement weather, soybeans, wheat, chickpeas, field peas and lentils can be replanted immediately, provided a fall application of no more than 1.75 L/ha of V-10448 Herbicide was used on the lost crop. If a spring application of V-10448 Herbicide was made refer to Rotational Restrictions table for re-plant intervals. V-10448 Herbicide. Crop injury may occur if these restrictions are not followed.

### **GENERAL USE PRECAUTIONS**

- Do not apply this product when weather conditions favor spray drift from treated areas.
- Do not apply during low-level inversion conditions, including fog.
- Do not apply to frozen or snow covered soil.
- Do not use prior to seeding durum wheat.
- Mechanical incorporation into the soil will reduce residual weed control. Do not perform any tillage operations after application or weed control will be reduced.
- 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.

- Do not apply more than 1.75L of V-10448 Herbicide per hectare during a single growing season.
- Do not irrigate when crops are newly emerged or cracking the soil surface.
- Do not apply by air. Use ground application equipment only
- Moisture is necessary to activate V-10448 Herbicide in soil for residual weed control. Dry weather following applications of V-10448 Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, V-10448 Herbicide will control susceptible germinating weeds. V-10448 Herbicide may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.
- When adequate moisture is not received after a V-10448 Herbicide application, weed control may be improved by irrigation with at least 1.5-2.5 cm of water.

Pregrazing Intervals:

Following treatment with V-10448 Herbicide, follow these grazing restrictions, do not graze treated fields or feed treated forage or hay to livestock, unless otherwise noted below:

For soybean (pre-plant and preemergence):

- Do not harvest as green feed or permit livestock to graze fields within 21 days after application.
- Do not cut hay/fodder within 50 days after application.

For field corn (minimum and no-till ONLY):

- Do not permit livestock to graze fields within 93 days after application.
- Do not harvest as green feed or silage within 93 days after application

For spring wheat (minimum and no-till ONLY):

- Do not harvest as green feed or permit livestock to graze field within 42 days after application.
- Do not cut hay/fodder within 52 days after application.

**Important:** Crop injury may occur from applications made to poorly drained soils and/or applications made under cool, wet conditions. Severe crop injury can result when soils are flooded or saturated following application of V-10448 Herbicide. Risk of crop injury can be minimized by using on well drained soils, planting crops at least 4 cm deep, using high quality seed and completely covering seeds with soil prior to preemergence applications. Treated soil that is splashed onto newly emerged crops may result in temporary crop injury. Long periods of drought followed by rainfall may result in temporary crop injury due to excess product absorption. Sandy, low organic matter areas of a field, such as hilltops may be subject to reduced crop tolerance to V-10448 Herbicide.

**Table 1. Weeds Controlled by V-10448 Herbicide**

WEEDS CONTROLLED	APPLICATION RATE (L/ha)
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<p>Common lamb's-quarters (<i>Chenopodium album</i>)  Common ragweed (<i>Ambrosia artemisiifolia</i>)  Common waterhemp (<i>Amaranthus tamariscinus</i>)  Dandelion (<i>Taraxacum officinale</i>)  Eastern black nightshade (<i>Solanum ptycanthum</i>)  Green foxtail including Group 1 and 2 resistant (<i>Setaria viridis</i>)  Green pigweed (<i>Amaranthus powellii</i>)  Hairy nightshade (<i>Solanum sarachoides</i>)  Large crabgrass (<i>Digitaria sanguinalis</i>)  Palmer amaranth (<i>Amaranthus palmeri</i>)  Pennsylvania smartweed (<i>Polygonum pennsylvanicum</i>)  Redroot pigweed (<i>Amaranthus retroflexus</i>)  Velvetleaf (<i>Abutilon theophrasti</i>)  Wild buckwheat (<i>Polygonum convolvulus</i>)  Wild mustard, including Group 2 resistant (<i>Sinapis arvensis</i>)  Kochia (<i>Kochia scoparia</i>) including Group 2, 4, and 9 resistant kochia  Canada fleabane (<i>Conyza canadensis</i>)  Common chickweed (<i>Stellaria media</i>)  Annual sowthistle (<i>Sonchus oleraceus</i>)  Common Barnyard grass (<i>Echinochloa crusgalli</i>)  Cleavers (<i>Galium aparine</i>)  Wild oats (<i>Avena fatua</i>)  Russian thistle (<i>Salsola spp.</i>) **  Downy brome (<i>Bromus tectorum</i>)  Japanese brome (<i>Bromus japonicas</i>)  Foxtail barley (<i>Hordeum jubatum</i>) (suppression)  Yellow foxtail (<i>Setaria glauca</i>) (suppression)  Green smartweed (<i>Polygonum scabrum</i>)  Lady's-thumb (<i>Polygonum persicaria</i>)  Stinkweed (<i>Thlaspi arvense</i>)  Common groundsel (<i>Senecio vulgaris</i>)  Ball mustard (<i>Neslia paniculata</i>)  Corn spurry (<i>Spergula arvensis</i>)  Hempnettle (<i>Galeopsis tetrahit</i>)  Henbit (<i>Lamium amplexicaule</i>) **  Night flowering catchfly (<i>Silene noctiflora</i>)  Tartary buckwheat (<i>Fagopyrum tataricum</i>)  Wormseed mustard (<i>Erysimum cheiranthoides</i>)  Volunteer canola (<i>Brassica napus</i>) including glyphosate, glufosinate ammonium and Imidazolinone tolerant varieties</p>	1.17-1.75*
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\*: Use the 1.75 L/ha rate on fine-medium texture soils for season-long residual control

\*\* : Use 1.75 L/ha rate for control.

### **DIRECTIONS FOR USE IN SOYBEAN (Pre-Plant and Preemergence)**

#### **APPLICATION TIMING**

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V-10448 Herbicide may be applied to soybeans early pre-plant, prior to planting or preemergence (after planting). Preemergence application of V-10448 Herbicide must be made within 3 days after planting and prior to soybean emergence. Application after the soybeans have begun to crack, or are emerged, will result in severe crop injury. Application should not be made when soybeans have begun to crack.

### **Burndown Applications (Spring and Fall)**

V-10448 Herbicide, applied as part of a burndown program, may be used for residual weed control where soybeans will be planted directly into a stale seedbed, cover crop, or in previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as 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.

For fall burndown: 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.

### **USE PRECAUTIONS**

- Do not use V-10448 Herbicide in soybeans in the same field that flufenacet, alachlor, metolachlor or dimethenamid will be used preemergence, or soybean injury may occur.
- Do not irrigate when soybeans are cracking.
- Injury may occur when:
  - applied in conjunction with soil-applied organic phosphate pesticides.
  - applied to any soil with less than 2% organic matter.
  - soybeans are planted less than 4 cm deep.
  - heavy rains occur soon after application, especially in poorly drained areas where water may stand for several days.

<b>SOYBEAN – Application Rates</b>	
<b>APPLICATION RATE (L/ha)<sup>1</sup></b>	<b>COMMENTS</b>
1.17	Preemergence: Apply prior to weed emergence.  Postemergence: When weeds are already emerged, apply V-10448 Herbicide as a tank mix <sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt, at 1.2 kg a.e./ha.
1.75	Use this rate on fine-medium texture soils for season-long residual control

<sup>1</sup> Refer to Table 1 for list of controlled weeds.

<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.

### **TANK MIX PARTNERS**

#### **Burndown Activity**

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V-10448 Herbicide may be tank mixed with other herbicides for increased burndown activity, additional residual broadleaf and/or additional grass control. Completely read and follow the label of any potential tank mix partner with V-10448 Herbicide. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label. Refer to tank mix partner's label for adjuvant recommendations. Recommended tank mix partners include glyphosate, glufosinate ammonium and BlackHawk.

### **Additional Residual Broadleaf and Grass Control**

V-10448 Herbicide can be tank mixed with other products for the control of annual broadleaf and grass weeds. The user should contact Valent Canada, Inc. for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. Do not apply with other herbicide products which contain metribuzin. Do not apply with flufenacet, metolachlor, dimethenamid-p, or saflufenacil or injury may occur.

### **Round Up Ready Program**

V-10448 Herbicide may be applied as part of a burndown program or preemergence in conventional tillage programs, at 1.17 to 1.75 L/ha, to reduce early season weed competition from labeled weeds in Roundup Ready programs. A sequential post emergence application of glyphosate will be required to control weeds not controlled by V-10448 Herbicide.

## **DIRECTIONS FOR USE IN CHICKPEA and FIELD PEA**

### **APPLICATION TIMING**

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

V-10448 Herbicide provides preemergence control of susceptible weeds in chickpea and field pea. Apply V-10448 Herbicide with ground equipment prior to planting or within 3 days after planting and prior to emergence. Application after the chickpeas or field peas have begun to crack, or are emerged, will result in severe crop injury.

### **USE PRECAUTIONS**

- Do not irrigate when crop is cracking the soil surface.
- For chickpeas, use on Desi and Kabuli types only.
- Injury may occur when:
  - applied in conjunction with soil-applied organic phosphate pesticides.
  - applied to any soil with less than 2% organic matter.
  - crop is planted less than 4 cm deep.
  - heavy rains occur soon after application, especially in poorly drained areas where water may stand for several days.

#### **Burndown Applications (Spring and Fall)**

V-10448 Herbicide, applied as part of a burndown program, may be used for residual weed control where chickpea and field pea will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate or other non-residual burndown partners. Reduced weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

For fall burndown: 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.

<b>CHICKPEA and FIELD PEA – Spring Application Rates</b>	
<b>APPLICATION RATE (L/ha)<sup>1</sup></b>	<b>COMMENTS</b>
1.17	When weeds are already emerged, apply V-10448 Herbicide as a tank mix <sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt.

<sup>1</sup> Refer to Table 1 for list of controlled weeds.

<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>CHICKPEA and FIELD PEA – Fall Application Rates</b>	
<b>APPLICATION RATE (L/ha)<sup>1</sup></b>	<b>COMMENTS</b>
1.17	When weeds are already emerged, apply V-10448 Herbicide as a tank mix <sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt.  Applications should be made prior to ground freeze and must not be made on top of snow cover.
1.75	Use this rate on fine-medium texture soils  Applications should be made prior to ground freeze and must not be made on top of snow cover.

<sup>1</sup> Refer to Table 1 for list of controlled weeds.

<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.

### **DIRECTIONS FOR USE IN LENTIL [Small Red and Large Green Varieties]**

#### **APPLICATION TIMING**

##### **Fall Burndown Applications (With Glyphosate)**

V-10448 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 or non-residual other burndown partners. 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 V-10448 Herbicide. Testing has shown that small-seeded red and large-seeded green varieties are most tolerant to applications of V-10448 Herbicide. Other

seed classes of lentils should not be planted into areas treated with V-10448 Herbicide.

Environmental conditions, such as saturated soils, and abnormally cool, wet weather after seeding may also increase the risk of lentil injury following a fall application of V-10448 Herbicide. V-10448 Herbicide is a very active herbicide and the user should exercise caution until gaining familiarity with this product.

- Do not use on soils with less than 2% organic matter

<b>LENTILS [Small Red and Large Green Varieties] – Fall Application Rates</b>	
<b>APPLICATION RATE (L/ha)<sup>1</sup></b>	<b>COMMENTS</b>
1.17	When weeds are already emerged, apply V-10448 Herbicide as a tank mix <sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt.  Applications should be made prior to ground freeze and must not be made on top of snow cover.
1.75	Use this rate on fine-medium texture soils for season-long residual control.  Applications should be made prior to ground freeze and must not be made on top of snow cover.

<sup>1</sup> Refer to Table 1 for list of controlled weeds.

<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.

## **DIRECTIONS FOR USE IN FIELD CORN (Minimum and No-till ONLY)**

### **APPLICATION TIMING**

#### **Preemergence Applications**

V-10448 Herbicide provides preemergence control of susceptible weeds in field corn. Apply V-10448 Herbicide with ground equipment between 7 and 30 days prior to planting field corn into no-till or minimum tillage fields, unless application is made as part of fall burndown program.

#### **Burndown Applications (Spring and Fall)**

V-10448 Herbicide, applied as part of a burndown program, may be used for residual weed control where field corn will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as 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. Do not apply to frozen or snow covered soil.

### **USE PRECAUTIONS**

- Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil. Crop injury may occur from applications made to poorly drained soil and/or applications made under cool, wet conditions. Severe crop injury will result when soils are flooded following applications of V-10448 Herbicide.
- Do not irrigate when corn is emerging to 2-leaf.

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- Weed 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. No-till planters that incorporate the soil during planting may result in decreased weed control in the row.
- Do not use on soils with less than 1% organic matter unless activation rainfall has occurred between application and planting.
- Do not use on popcorn, sweet corn, or corn grown for seed.
- Apply only once during a single growing season.
- Do not apply to fine-textured soils, peat or muck soil.
- Do not apply on coarse textured soils with less than 1.5% organic matter.

**Important:** Crop injury may occur from applications made to poorly drained soils and/or applications made under cool, wet conditions. Sever crop injury will result when soils are flooded following application of V-10448 Herbicide.

<b>Field Corn (Minimum and No-till) – APPLICATION RATES</b>	
<b>APPLICATION RATE (L/ha)<sup>1</sup></b>	<b>COMMENTS</b>
1.17	Preemergence: Apply prior to weed emergence between 7 and 30 days prior to planting field corn in the spring, into no-till or minimum tillage fields. Application may also be made in the fall, prior to planting.  Postemergence: When weeds are already emerged, apply V-10448 Herbicide as a tank mix <sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt.

<sup>1</sup> Refer to Table 1 for list of controlled weeds.

<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.

## **TANK MIX PARTNERS**

### **Burndown Activity**

V-10448 Herbicide may be tank mixed with other herbicides for increased burndown activity, additional residual broadleaf and/or additional grass control. Completely read and follow the label of any potential tank mix partner with V-10448 Herbicide. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label. Refer to tank mix partner's label for adjuvant recommendations. Recommended tank mix partners include glyphosate, 2,4-D, dicamba, or Gramoxone 200 SL.

## **DIRECTIONS FOR USE IN SPRING WHEAT (Minimum and No-till ONLY)**

### **APPLICATION TIMING**

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

V-10448 Herbicide provides preemergence control of susceptible weeds in spring wheat. Apply V-10448 Herbicide with ground equipment at minimum 7 days prior to planting spring wheat into no-till or minimum tillage fields. Wheat must be planted a minimum of 2.5 cm (1 inch) deep to ensure crop safety. Do not use on durum wheat.

**Burndown Applications (Spring and Fall)**

V-10448 Herbicide, applied as part of a burndown program, may be used for residual weed control where spring wheat will be planted directly into previous crop residues. For control of emerged weeds, tank mix with glyphosate, present as 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.

**USE PRECAUTIONS**

- Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil. Crop injury may occur from applications made to poorly drained soil and/or applications made under cool, wet conditions. Severe crop injury will result when soils are flooded following applications of V-10448 Herbicide.
- Do not irrigate spring wheat between emergence and spike.
- Weed 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. No-till planters that incorporate the soil during planting may result in decreased weed control in the row.
- Do not apply to fine-textured soils, peat or muck soil.

Do not use on soils containing less than 2% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils may cause crop injury ranging from leaf burn to stand reduction.

<b>Spring Wheat (Minimum and No-till) – APPLICATION RATE</b>	
<b>APPLICATION RATE (L/ha)<sup>1</sup></b>	<b>COMMENTS</b>
1.17	<p>Preemergence: Apply prior to weed emergence, and at minimum 7 days prior to planting spring wheat into no-till or minimum tillage fields. Application may also be made in the fall, prior to planting.</p> <p>Postemergence: When weeds are already emerged, apply V-10448 Herbicide as a tank mix<sup>2</sup> with a glyphosate product, present as isopropyl amine or potassium salt.</p>

<sup>1</sup> Refer to Table 1 for list of controlled weeds.

<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.

**DIRECTIONS FOR USE IN FALL BURNDOWN AND FALLOW LAND**

Apply 1.17 to 1.75 L/ha of V-10448 Herbicide in the fall to provide residual weed control in fields that will be planted the following spring as identified in the crop rotational interval table. Weeds controlled by residual activity are listed in Table 1 (see above). If weeds have emerged at the time of application, use V-10448 Herbicide in combination with a labeled burndown herbicide. Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

**DIRECTIONS FOR USE TO MAINTAIN BARE GROUND ON NON-CROP**

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Use V-10448 Herbicide for non-selective vegetation control to maintain bare ground on non-crop areas of farms that must be kept weed free.

V-10448 Herbicide offers residual and postemergence control of susceptible broadleaf and grass weeds as well as an additional mode of action to assist in the control of ALS (acetolactate synthase) resistant weeds. V-10448 Herbicide can be tank mixed with the other herbicides for increased residual or postemergence control. The length of residual control is dependent on the rate applied as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase. V-10448 Herbicide rates of 1.17 to 1.75 L/ha are required to provide residual control of the weeds listed in Table 1 above.

### **USE PRECAUTIONS**

- 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 to ditch banks.
- Do not apply within 100 metres of non-dormant pears.
- Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.
- Do not make more than one application per season.

### **PREEMERGENCE APPLICATION**

Apply 1.17 to 1.75 L/ha of V-10448 Herbicide as a preemergence application. Preemergence applications of V-10448 Herbicide must be completed prior to weed emergence. Moisture is necessary to activate V-10448 Herbicide on soil for residual weed control. Dry weather following application of V-10448 Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, V-10448 Herbicide will control susceptible germinating weeds.

### **POSTEMERGENCE APPLICATION**

Apply 1.17 to 1.75 L/ha of V-10448 Herbicide plus an adjuvant (0.25% v/v non-ionic surfactant) as a postemergence application. The addition of an adjuvant enhances activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of V-10448 Herbicide. Emerged weeds are controlled postemergence with V-10448 Herbicide, however, translocation of within a weed is limited, and control is affected by spray coverage and by the addition of an adjuvant. The most effective postemergence weed control with V-10448 Herbicide occurs when applied in combination with a surfactant to weeds less than 5 cm in height. A tank mix partner should be used in combination with V-10448 Herbicide for the postemergence control of weeds greater than 5 cm.

**TANK MIX PARTNERS:** Completely read and follow the label of any potential tank mix partner with V-10448 Herbicide. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label. Recommended tank mix partners include glyphosate, 2,4-D Ester and glufosinate ammonium.

V-10448 is a registered trademark of Valent U.S.A. LLC  
All other products mentioned are the trademarks or registered trademarks of their respective companies.

<b>GROUP</b>	<b>5</b>	<b>14</b>	<b>15</b>	<b>HERBICIDES</b>
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# V-10448 Herbicide

SUSPENSION CONCENTRATE  
COMMERCIAL

**FOR CONTROL OR SUPPRESSION OF CERTAIN WEEDS IN LABELLED CROPS AND  
NON CROP AREAS**

<b>ACTIVE INGREDIENT:</b>	
Flumioxazin.....	59.8 g/L
Metribuzin.....	179.2 g/L
Pyroxasulfone.....	76.4 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3-one as a preservative at 0.0017% and 2-methyl-4-isothiazolin-3-one as a preservative at 0.0006% as a preservative OR contains 1,2-benzisothiazolin-3-one as a preservative at 0.0386%.

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

REGISTRATION NO.: 34280PEST CONTROL PRODUCTS ACT



**CAUTION POISON**

**Net Contents: 0.05 – Bulk Litres**

Valent Canada, Inc.  
201-230 Hanlon Creek Blvd.  
Guelph, ON N1C 0A1  
Phone: 519-767-9262

## 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. 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.

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

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL OR POISONING CALL  
1-800-892-0099***

## TOXICOLOGICAL INFORMATION

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

## PRECAUTIONS

**KEEP OUT OF THE REACH OF CHILDREN.** Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin or clothing.

Follow the personal protective equipment, engineering control, and restriction requirements for the appropriate mixer/loader and applicator scenario as described on the booklet label.

## **ENVIRONMENTAL PRECAUTIONS**

See booklet for full user precautions and restrictions.

## **DISPOSAL/DECONTAMINATION**

**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 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 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.

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