

(Container label)



GROUP	<b>2</b>	HERBICIDE
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## **Imazethapyr SL**

**Herbicide**

Solution

COMMERCIAL (AGRICULTURAL)

**(NOT FOR USE IN PRAIRIE PROVINCES)**

ACTIVE INGREDIENT: Imazethapyr ..... 240 g/L

REGISTRATION NO. 34260 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 1L – 150L

### **Corteva Agriscience Canada Company**

2450, 215 – 2<sup>nd</sup> Street S.W.

Calgary, Alberta

T2P 1M4

1-800-667-3852

™ Trademark of Corteva Agriscience and its affiliated companies.

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **MAY BE HARMFUL** if swallowed, inhaled or absorbed through the skin.
3. **DO NOT** get in eyes. May cause eye damage.
4. May cause skin irritation. Avoid contact with skin and clothing.
5. **DO NOT** contaminate food or feed products.
6. Avoid breathing vapour or spray mist. Use with adequate ventilation.
7. **DO NOT** eat, drink or smoke when using.
8. Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking.
9. Wear long-sleeved shirt, long pants, dust and/or splash-proof goggles or face shield, and chemical resistant gloves during mixing, loading, application, clean-up and repair.
10. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
11. Clean protective equipment (gloves, goggles, face shield) upon removal with soapy water.
12. Clean spray equipment thoroughly after use.
13. Do not enter or allow entry into treated areas during the restricted-entry interval of 12 hours.
14. **DO NOT APPLY BY AIR.**

## FIRST AID

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

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. 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 inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

## TOXICOLOGICAL INFORMATION

Treat symptomatically.

## ENVIRONMENTAL PRECAUTIONS

TOXIC to non-target terrestrial and aquatic plants. Observe 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 strip between the treated area and the edge of the water body.

## STORAGE

- Store the leftover product in original tightly closed container.
- Keep product from freezing. DO NOT store below 0°C. If the product is exposed to temperatures below 0°C during shipment or storage, make sure the product has thawed completely, and shake the container vigorously.
- DO NOT ship or store the product near food, feed, seed and fertilizers.
- Store the product in cool, dry, locked, well-ventilated areas without floor drain.

## **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.

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

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

(Booklet)



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## **DIRECTIONS FOR USE**

### **GENERAL INFORMATION**

Imazethapyr SL Herbicide is a selective herbicide that can be applied as an early pre-plant, pre-plant incorporated, pre-emergent or post-emergent treatment in soybeans. The application method depends upon the crop, anticipated weed spectrum and the preference of the applicator. With early pre-plant and pre-emergent treatments, susceptible weeds emerge, are present as stunted plants and then die. When Imazethapyr SL Herbicide is applied post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

Use Imazethapyr SL Herbicide at 312 mL (75 g active) – 420 mL (100 g active) per hectare. For post-emergent application to glyphosate tolerant soybeans, 210 mL (50 g active) – 312 mL (75 g active) per hectare may be applied in tankmix with glyphosate. See appropriate rate tables for specific application rates for each crop.

### **REGISTERED CROPS**

Soybeans

### **MOISTURE REQUIREMENTS**

As with most soil-applied herbicides, pre-emergent applications of Imazethapyr SL Herbicide require moisture for activation. Soil-applied Imazethapyr SL Herbicide requires sufficient water within 7 days of application to moisten the soil to a depth of 5 cm for activation. If adequate moisture is not received within 7 to 10 days of application, perform a shallow inter-row cultivation 5-8 cm deep using a roller or S-tine cultivator to control escaped weeds until the field receives adequate moisture. For early pre-plant applications (soybeans only), more than 7-10 days may elapse before the receipt of adequate precipitation to activate the herbicide and reduce the risk of weed escapes. Growers preferring surface applications of herbicides may choose this type of application of Imazethapyr SL Herbicide.

### **PLANT BACK RESTRICTIONS AND ROTATIONAL CROPS**

In cases of crop failure, replant soybeans in the year of application. Soil preparation for re-planting should be no deeper than 10 cm.

Soybeans may be planted the season following a Imazethapyr SL Herbicide application. Conduct a field bioassay (a test strip grown to maturity) the year BEFORE growing any other crop.

### **APPLICATION INSTRUCTIONS**

Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.

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

**DO NOT** apply by air.

### Surface Runoff

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

### CROP: SOYBEANS

Apply Imazethapyr SL Herbicide as an early pre-plant, pre-plant incorporated, pre-emergent or postemergent treatment in soybeans.

For fields that contain weeds other than those listed in the “Weed Control in Soybeans: Imazethapyr SL Herbicide Alone” table, tank mix for broad-spectrum weed control (see “Herbicide Tank Mix Options – Soybeans”). The choice of product for tank mixing will depend on the specific weed(s) to be controlled. Consult the labels of the tank mix products to determine which product will provide control of the specific weeds present in the field.

### Weed Control in Soybeans: Imazethapyr SL Alone

Weeds	Application Timing					
	Early Pre-plant (prior to weed emergence)	Early Pre-plant (emerged weeds prior to 2 true leaf stage)	Pre-plant Incorporated	Pre-Emergent	Early Post-emergent (before weeds reach 2 true leaf stage)	Post-emergent (maximum leaf stage in parenthesis)
<b>Broadleaf weeds</b>						
Lamb's quarters	C	PC	C <sup>2</sup>	C	PC	
Redroot pigweed	C	C	C	C	C	C(12)
Smartweed	C			C		
Lady's thumb	C			C <sup>3</sup>		
Wild mustard	C	C	C	C	C	
Velvetleaf	C <sup>1</sup>	C <sup>1</sup>	C <sup>1</sup>	C <sup>1</sup>	C <sup>1</sup>	C(8)
Ragweed, common	C	PC	PC <sup>2</sup>	C <sup>3</sup>	C <sup>4</sup>	
Ragweed, giant					PC <sup>5</sup>	PC(10)
Eastern black nightshade	PC	C	C	C	C	
Wild buckwheat		PC			C	
Cocklebur		C <sup>1</sup>			C <sup>1,4</sup>	
<b>Grasses</b>						
Foxtail, green and yellow	C	C	C	C	C	C(4)
Barnyard grass	C	PC	PC <sup>2</sup>	C <sup>3</sup>	C <sup>4</sup>	C(6)

Old witchgrass	C			C <sup>3</sup>	C	
Proso millet	PC	PC	PC	PC	PC	
Crabgrass, large					PC	
<b>Perennials</b>						
Yellow nutsedge					PC	

C = Control      PC = Partial Control and Reduces Competition

<sup>1</sup> Some plants of velvetleaf and/or cocklebur that germinate deeper in the soil and emerge late may escape treatment.

<sup>2</sup> Tank mixing is recommended for fields with a history of heavy infestations of this weed species.

<sup>3</sup> The higher label rate or tank mixing is recommended for fields with a history of heavy infestations of this weed species.

<sup>4</sup> The higher label rate is required for heavy infestations of this weed species.

<sup>5</sup> The higher label rate is required.

### Herbicide Tank Mix Options - Soybeans

Tank Mix Option	Application Timing			
	Early Pre-plant	Pre-plant Incorporated	Pre-Emergent	Post-emergent
Glyphos® Soluble Concentrate Herbicide or Vantage™ Plus MAX	X <sup>1</sup>			X <sup>1,3</sup>
Sencor®	X <sup>1</sup>	X <sup>1,2</sup>	X <sup>1</sup>	
Lexone®		X <sup>1,2</sup>	X <sup>1</sup>	
Treflan™ EC/Rival®/Trifluralin®		X <sup>1</sup>		
Lorox®/Afolan®			X <sup>1</sup>	
Liberty® 200SN Herbicide				X <sup>2,4</sup>
Basagran®/Basagran® Forte				X <sup>1,2</sup>

<sup>1</sup> Refer to the label of the specific tank mix product for information regarding rates, recommendations, precautions and restrictions.

<sup>2</sup> Refer to Tank Mix Options under the appropriate Application Timing in this label.

<sup>3</sup> Glyphosate Tolerant Soybeans only (i.e., varieties with the Roundup Ready®). Refer to CROP: GLYPHOSATE TOLERANT gene SOYBEANS section.

<sup>4</sup> For use on soybean varieties that are specially developed to be tolerant to glufosinate ammonium (e.g. LibertyLink® seeds).

### Early Pre-plant Application - Soybeans

Timing	Apply Imazethapyr SL Herbicide up to 30 days before planting in conventional, reduced tillage or no-till soybeans. Imazethapyr SL Herbicide alone may be applied as a surface application using this technique.  Only one additional working of the soil to prepare the seedbed is recommended following the application. This final seedbed preparation should not work the soil deeper than 10 cm. Deeper tillage will result in reduced concentration of herbicide in the weed germination zone and reduction in weed control. DO NOT plow following the application.	
Rate	Early Pre-plant – Prior to Weed Emergence	420 mL/ha
	Early Pre-plant – to Emerged Weeds (before the weeds reach the 2 true leaf stage).	420 mL/ha + non-ionic surfactant. Nonionic surfactant MUST BE ADDED. Liquid fertilizer added to the spray solution will provide quicker burndown of weed
Water Volume	100-400 L/ha	
Surfactant/ Adjuvant	For Early Pre-plant – to Emerged Weeds: Non-ionic surfactant – 0.25% v/v (e.g. 2.5 L/1000 L of spray solution) Liquid fertilizer solution (10-34-0, 28-0-0 or 32-0-0) - 2 L/ha	
Weeds Controlled	See “Weed Control in Soybeans” table above.	
Remark	Plant only soybeans during the season of application.	



**Pre-plant Incorporated Application - Soybeans**

Timing	Incorporate Imazethapyr SL evenly throughout the top 5 cm of the soil profile. Incorporation may be achieved with a double pass using discs or cultivator operated at 8 to 12 kph with the second pass at an angle to the first. Cultivators must have 3 or 4 rows of flexible sweeps staggered and spaced less than 15 cm apart followed by a drag or rolling basket to ensure no soil is left unturned.															
Rate	312 mL/ha															
Water Volume	100-400 L/ha															
Weeds Controlled	See "Weed Control in Soybeans" table above.															
Remark	DO NOT apply Imazethapyr SL as a pre-plant incorporated application more than one year in sequence. Allow at least 24 months between pre-plant incorporated applications.															
Tank Mix Options	<p>For fields that contain heavy lamb's-quarters, common ragweed and/or barnyard grass infestations or weeds other than those listed under "Imazethapyr SL Alone", tank mixing may be required to provide broad-spectrum weed control (see "Herbicide Tank Mix Options – Soybeans" table). Follow the most conservative rates, recommendations, precautions and restrictions on the tank mix labels.</p> <p>For Sencor and Lexone herbicide, refer to the following table for rates:</p> <table border="1"> <thead> <tr> <th rowspan="2">Soil Texture<sup>1</sup></th> <th colspan="3">Application Rate per Hectare</th> </tr> <tr> <th>Sencor 75DF</th> <th>Sencor 480 F</th> <th>Lexone 75 DF</th> </tr> </thead> <tbody> <tr> <td>Medium (loam, silt loam, silt, sandy clay, sandy clay loam)</td> <td>750</td> <td>1.1 L</td> <td>540</td> </tr> <tr> <td>Heavy (silty clay, silty clay loam, clay and clay loam)</td> <td>750</td> <td>1.1 L</td> <td>640</td> </tr> </tbody> </table> <p><sup>1</sup> Do not use on light (loamy sand, sandy loam) textured soils. Do not use on soil with less than 2% organic matter.</p>	Soil Texture <sup>1</sup>	Application Rate per Hectare			Sencor 75DF	Sencor 480 F	Lexone 75 DF	Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	750	1.1 L	540	Heavy (silty clay, silty clay loam, clay and clay loam)	750	1.1 L	640
Soil Texture <sup>1</sup>	Application Rate per Hectare															
	Sencor 75DF	Sencor 480 F	Lexone 75 DF													
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Heavy (silty clay, silty clay loam, clay and clay loam)	750	1.1 L	640													

**Pre-emergent Application - Soybeans**

Timing	Pre-emergent applications of Imazethapyr SL may be applied before the crop and weeds emerge.
Rate	312 - 420 mL/ha
Water Volume	100-400 L/ha
Weeds Controlled	See "Weed Control in Soybeans" table above.
Tank Mix Options	For fields that contain heavy infestations of common ragweed, old witchgrass, barnyard grass, lady's-thumb or weeds other than those listed under "Imazethapyr SL Alone", tank mixing may be required to provide broad-spectrum weed control (see "Herbicide Tank Mix Options – Soybeans" table). Follow the most conservative rates, recommendations, precautions and restrictions on the tank mix labels.

**Early and Late Post-emergent Application - Soybeans**

Timing	<p>Apply Imazethapyr SL early post-emergent after the crop has emerged and before the weeds reach the 2 true leaf stage.</p> <p>Imazethapyr SL may also be applied late post-emergent after the crop has emerged for control of certain weed species up to the growth stages indicated in the "Weed Control in Soybeans: Imazethapyr SL Alone" table. To minimize weed competition with the crop, application should be made as early as possible after weed emergence.</p>
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Rate	Early Post-emergent – (before the weeds reach the 2 true leaf stage)	312-420 mL/ha + non-ionic surfactant + liquid fertilizer
	Late Post-emergent	420 mL/ha + non-ionic surfactant + liquid Fertilizer.
Water Volume	100-400 L/ha	
Surfactant/ Adjuvant	Non-ionic surfactant – 0.25% v/v (e.g. 2.5 L/1000 L of spray solution) Liquid fertilizer solution (10-34-0, 28-0-0 or 32-0-0) - 2 L/ha	
Weeds Controlled	See “Weed Control in Soybeans” table above.	
Remark	<p>Addition to the spray solution of a non-ionic surfactant plus liquid fertilizer is essential for post-emergent application, improving uptake of the product by weeds resulting in improved herbicidal activity.</p> <p>Avoid applications when weeds and/or crop are under growth stress. Stunting of the crop may result following post-emergence application. This condition is the result of stem inter-node shortening but will not result in yield reduction.</p>	
Tank Mix Options	<p>Imazethapyr SL may also be tank mixed with the herbicides listed in the “Herbicide Tank Mix Options – Soybeans” table. Always follow the most conservative rates, recommendations, precautions and restrictions on the tank mix labels.</p> <p><b>Comments:</b> Use the 312 mL/ha rate of Imazethapyr SL when tank mixed with Basagran or Basagran Forte herbicide.</p> <p>For Imazethapyr SL plus Basagran herbicide, a non-ionic surfactant at the rate of 0.25% (v/v) and fertilizer solution at the rate of 2 L/ha MUST BE ADDED to the spray solution.</p> <p>For Imazethapyr SL plus Basagran Forte herbicide, only fertilizer solution MUST BE ADDED at the rate of 2 L/ha.</p>	

**CROP: GLYPHOSATE TOLERANT SOYBEANS**  
(i.e., varieties with the Roundup Ready® gene)

**Post-emergent Application**

Timing	<p>For broadleaf and grass weeds other than those listed in “Weed Control in Soybeans: Imazethapyr SL Herbicide Alone” table, Imazethapyr SL Herbicide may be tank mixed with, Glyphos Soluble Concentrate Herbicide or Vantage Plus MAX Herbicide Solution and applied to Roundup Ready soybeans.</p> <p>Follow the rates, application timings, recommendations, precautions and restrictions on the glyphosate label. Refer to the glyphosate label for adjuvant recommendations.</p>
Rate	312 mL/ha
Water Volume	100-400 L/ha
Alternative Imazethapyr SL Rate	<p><b>Imazethapyr SL Herbicide at 160 - 210 mL/ha</b> Tankmixing Imazethapyr SL Herbicide at 160 - 210 mL/ha with glyphosate will provide residual control of late germinating eastern black nightshade, common lamb's quarters, redroot pigweed, velvetleaf, fall panicum and wild proso millet. Use 900 g ae/ha of glyphosate<sup>1</sup> and apply up to and including the 3rd trifoliolate leaf stage of Roundup Ready soybeans in 100-200 litres per hectare of clean water. Use higher rate for heavier infestations.</p>

	<p>Consult the glyphosate label for weeds controlled by glyphosate, as well as for further recommendations, precautions and restrictions.</p> <p><sup>1</sup> 900 g ae glyphosate/ha is equivalent to 2.5 L/ha of, Glyphos Soluble Concentrate Herbicide or 1.88 L/ha of Vantage Plus MAX Herbicide Solution.</p>
Remarks	<p><b>WARNING</b> Apply Imazethapyr SL + glyphosate herbicide tank mix ONLY to glyphosate tolerant soybeans, i.e. varieties with the Roundup Ready® gene. <b>SOYBEANS WHICH ARE NOT DESIGNATED AS GLYPHOSATE TOLERANT WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.</b></p>

**CROP: GLUFOSINATE AMMONIUM TOLERANT (LIBERTYLINK®) SOYBEANS  
(British Columbia and Eastern Canada Only)**

**Post-emergent Application**

Timing	<p>For control of broadleaf and grass weeds other than those listed in the “Weed Control in Soybeans: Imazethapyr SL Herbicide Alone” table, Imazethapyr SL Herbicide may be tank mixed with Liberty 200SN herbicide and applied to glufosinate ammonium tolerant (LibertyLink) soybeans from the cotyledon to the flowering stage of the crop.</p> <p>Consult the Liberty 200SN herbicide label for the recommended leaf stage of weeds at application for best weed control.</p>
Rates	<p>312 mL/ha Imazethapyr SL Herbicide + 1.5 - 2.5 L/ha Liberty 200SN herbicide</p> <p>Tank mix Imazethapyr SL Herbicide with the appropriate rate of Liberty 200SN herbicide for the targeted weed species. Refer to the Liberty 200SN herbicide label for rates, weeds controlled, further recommendations, precautions and restrictions.</p>
Water Volume	<p>Minimum of 110 L/ha</p>
Remarks	<p><b>WARNING</b> Apply Imazethapyr SL Herbicide plus Liberty 200SN herbicide tank mix ONLY to glufosinate ammonium tolerant soybeans (e.g. LibertyLink seeds). <b>Application of Liberty 200SN herbicide to non-tolerant soybeans will result in severe crop injury or death of the crop.</b></p>

**MIXING INSTRUCTIONS**

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Fill the spray tank one-half full to three-quarters full of water and start agitation.
3. Using a calibrated measuring device, add the required amount of tank mix partner (refer to the tank mixture section of each crop for tank mixtures).
4. Mix thoroughly.
5. Using a separate calibrated measuring device, add the required amount of Imazethapyr SL to the tank while agitating the spray solution.
6. While the solution remains agitating, add the required amount of non-ionic surfactant if required.
7. If required, add the required amount of liquid fertilizer (28-0-0, 10-34-0 or 32-0-0) to the spray solution.
8. Continue agitation while filling the remainder of the spray tank with water.
9. Clean the spray tank after use.

**RESTRICTIONS AND LIMITATIONS**

1. DO NOT over apply Imazethapyr SL. Over application may result in injury particularly if the crop is under stress.
2. Crop Pre-harvest Interval

Crop	Application to Harvest Interval (days)
Soybeans	100

3. CAUTION: Do not graze treated crops or cut for hay, sufficient data are not available to support such use.
4. DO NOT let spray drift contaminate crops in adjacent fields.
5. ONLY ONE (1) application of Imazethapyr SL may be made during the season.
6. DO NOT apply Imazethapyr SL as a pre-plant incorporated application in all crops more than one year in sequence. Allow at least 24 months between pre-plant incorporated applications.
7. Emerged weeds in pre-emergent applications which reach the 2 - 3 true leaf stage might be considered as escapes. Shallow cultivation or application of a post-emergent herbicide is recommended. DO NOT cultivate deeply.
8. DO NOT apply Imazethapyr SL when crop is under stress conditions because crop injury may result.
9. Post-emergent application of Imazethapyr SL to soybeans may cause stunting. This condition is the result of stem inter-node shortening and does not cause yield reductions if Imazethapyr SL has been used at label rates and following label recommendations.
10. Imazethapyr SL may cause stunting or delayed maturity in white beans and kidney beans. Stunting is the result of stem inter-node shortening and should not cause yield reductions if Imazethapyr SL has been used at label rates and following label recommendations.
11. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

#### **BUFFER ZONES**

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

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:	
		Freshwater Habitat	Terrestrial Habitat
Field sprayer	Soybeans	1	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, Imazethapyr SL Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Imazethapyr SL Herbicide and other Group 2 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 Imazethapyr SL 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 specific crops and weed biotypes.
- For further information or to report suspected resistance, Corteva Agriscience Canada Company at 1 800 667 3852.

#### **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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