

GROUP

2

HERBICIDE



**COMMERCIAL (AGRICULTURAL)**  
**(NOT FOR SALE FOR USE IN PRAIRIE PROVINCES)**  
**SOLUTION**

**GUARANTEE:** Imazethapyr .....240 g/L

**REGISTRATION NO. 21537**

**PEST CONTROL PRODUCTS ACT**

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

**KEEP OUT OF REACH OF CHILDREN**

IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT  
1-800-454-2673

**NET CONTENTS:** 0.5 Litres – 150 Litres

BASF Canada Inc.  
100 Milverton Drive,  
5<sup>th</sup> Floor  
Mississauga, Ontario  
L5R 4H1  
1-877-371-2273

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## DIRECTIONS FOR USE

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### GENERAL INFORMATION

PURSUIT herbicide is a selective herbicide that can be applied as an early pre-plant, pre-plant incorporated, pre-emergent or post-emergent treatment in various crops. 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 PURSUIT herbicide is applied post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

Use PURSUIT 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

Adzuki Beans  
Alfalfa Grown for Seed Production  
Dry Common Beans of the species *Phaseolus vulgaris*<sup>1, 2</sup>  
Imazethapyr Tolerant Corn\* (**Clearfield** Brands)  
Lima Beans (Ontario only)  
Processing Peas  
Snap Beans  
Snow Peas  
Soybeans

<sup>1</sup> Dry common bean varieties may vary in their tolerance to herbicides, including PURSUIT herbicide. Since not all dry common bean varieties have been tested for tolerance to PURSUIT herbicide, first use of PURSUIT herbicide should be limited to a small area of each variety 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 dry common beans to PURSUIT herbicide.

<sup>2</sup> Including, but not limited to: kidney, cranberry, yellow eye, Dutch brown, black and white beans.

### MOISTURE REQUIREMENTS

As with most soil-applied herbicides, pre-emergent applications of PURSUIT herbicide require moisture for activation. Soil-applied PURSUIT 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 PURSUIT herbicide.

## PLANT BACK RESTRICTIONS AND ROTATIONAL CROPS

In cases of crop failure, replant only soybeans, all types of dry common beans of the species *Phaseolus vulgaris*, lima beans, adzuki beans, imazethapyr tolerant corn, and processing peas in the year of application. Winter wheat may also be re-planted in cases of crop failure or as a rotational crop 100 days following a PURSUIT herbicide application. Soil preparation for re-planting should be no deeper than 10 cm.

Field corn, imazethapyr tolerant corn, soybeans, winter wheat, spring wheat, spring barley, all types of dry common beans of the species *Phaseolus vulgaris*, lima beans, adzuki beans, and processing peas may be planted the season following a PURSUIT 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.

### 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	All crops	1	1

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

### 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 PURSUIT herbicide as an early pre-plant, pre-plant incorporated, pre-emergent or post-emergent treatment in soybeans.

For fields that contain weeds other than those listed in the “Weed Control in Soybeans: PURSUIT 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: PURSUIT Herbicide 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)	Late 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	Early and Late Post-emergent
Gramoxone®	X <sup>1</sup>			
Roundup® <sup>4</sup> or Glyphos® or Touchdown® iQ™ or Credit® Plus or Vantage™ Plus MAX	X <sup>1</sup>			X <sup>1,3</sup>
Roundup + FirstRate®	X <sup>2</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® or Edge®		X <sup>1</sup>		
Lorox® / Afolan® / Linuron®			X <sup>1</sup>	
Liberty® 200SN Herbicide				X <sup>2,5</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> Roundup Original Liquid Herbicide, Roundup Transorb® Liquid Herbicide, Roundup WeatherMAX® with Transorb 2 Technology Liquid Herbicide or Roundup Ultra Liquid Herbicide.

<sup>5</sup> For use on soybean varieties that are specially developed to be tolerant to glufosinate ammonium (e.g. LibertyLink® seeds).

Timing	<p><b>Early Pre-plant Application - Soybeans</b> Apply PURSUIT herbicide up to 30 days before planting in conventional, reduced tillage or no-till soybeans. PURSUIT herbicide alone may be applied as a surface application using this technique.</p> <p>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.</p>	
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. Non-ionic surfactant MUST BE ADDED. Liquid fertilizer added to the spray solution will provide quicker burndown of weeds.
Water Volume	100-400 L/ha	
Surfactant/ Adjuvant	<p>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 or 32-0-0) - 2 L/ha</p>	
Weeds Controlled	See “Weed Control in Soybeans” table above.	
Remarks	Plant only soybeans during the season of application.	

Tank Mix Options	PURSUIT herbicide 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.	
	For the combined tank mix with ROUNDUP and FIRSTRATE, use the following:	
	Rates	PURSUIT – 312 mL/ha ROUNDUP – 2.5 L/ha (0.900 kg ai/ha) FIRSTRATE – 21 g/ha (0.0175 kg ai/ha)
	Water Volume	100-400 L/ha
<p><b>Comments:</b> This tank mix provides control of emerged weeds found on the ROUNDUP herbicide label and residual control of germinating weeds found on the PURSUIT herbicide and FIRSTRATE herbicide labels. Temporary crop injury may occur, however, yield will not normally be affected. Avoid sprayer overlap. Severe crop injury will occur.</p>		

Timing	<b>Pre-plant Incorporated Application - Soybeans</b> Incorporate PURSUIT herbicide 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.																	
Remarks	DO NOT apply PURSUIT herbicide 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 “PURSUIT Herbicide 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 75 DF</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 g</td> <td>1.1 L</td> <td>540 g</td> </tr> <tr> <td>Heavy (silty clay, silty clay loam, clay and clay loam)</td> <td>750 g</td> <td>1.1 L</td> <td>640 g</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 75 DF	SENCOR 480 F	LEXONE 75 DF	Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	750 g	1.1 L	540 g	Heavy (silty clay, silty clay loam, clay and clay loam)	750 g	1.1 L	640 g
Soil Texture <sup>1</sup>	Application Rate per Hectare																	
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Timing	<b>Pre-emergent Application - Soybeans</b> Pre-emergent applications of PURSUIT herbicide 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 "PURSUIT Herbicide 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.

Timing	<b>Early and Late Post-emergent Application - Soybeans</b> Apply PURSUIT herbicide early post-emergent after the crop has emerged and before the weeds reach the 2 true leaf stage.  PURSUIT herbicide 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: PURSUIT Herbicide Alone" table. To minimize weed competition with the crop, application should be made as early as possible after weed emergence.	
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.	
Remarks	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.  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.	

Tank Mix Options	<p>PURSUIT herbicide 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 PURSUIT herbicide when tank mixed with Basagran or Basagran Forte herbicide.</p> <p>For PURSUIT herbicide plus BASAGRAN herbicide, a non-ionic surfactant at the rate of 0.25% (v/v) and fertilizer solution (10-34-0, 28-0-0 or 32-0-0) at the rate of 2 L/ha <b>MUST BE ADDED</b> to the spray solution.</p> <p>For PURSUIT herbicide plus BASAGRAN FORTE herbicide, only fertilizer solution <b>MUST BE ADDED</b> at the rate of 2 L/ha.</p>
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**CROP: GLYPHOSATE TOLERANT SOYBEANS  
(i.e., varieties with the Roundup Ready® gene)**

Timing	<p><b>Post-emergent Application</b> For broadleaf and grass weeds other than those listed in “Weed Control in Soybeans: PURSUIT Herbicide Alone” table, PURSUIT herbicide may be tank mixed with Roundup<sup>1</sup>, Glyphos, Touchdown iQ, Credit Plus or Vantage Plus MAX herbicide (glyphosate) 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> <p><sup>1</sup> Roundup Original Liquid Herbicide, Roundup Transorb Liquid Herbicide, Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide or Roundup Ultra Liquid Herbicide</p>
PURSUIT Rate	312 mL/ha
Water Volume	100-400 L/ha
Alternative PURSUIT Rate	<p><b>PURSUIT Herbicide at 160 - 210 mL/ha</b> Tankmixing PURSUIT 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 trifoliate 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 Roundup Original Liquid Herbicide, Roundup Transorb Liquid Herbicide, Glyphos Soluble Concentrate Herbicide, Touchdown iQ Liquid Herbicide or Credit Plus Liquid Herbicide, or 1.67 L/ha of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide or Roundup Ultra Liquid Herbicide, or 1.88 L/ha of Vantage Plus MAX Herbicide Solution.</p>
Remarks	<p><b>WARNING</b> Apply PURSUIT herbicide + glyphosate herbicide tank mix <b>ONLY</b> 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)**

Timing	<p><b>Post-emergent Application</b> For control of broadleaf and grass weeds other than those listed in the “Weed Control in Soybeans: PURSUIT Herbicide Alone” table, PURSUIT 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 PURSUIT herbicide + 1.5 - 2.5 L/ha Liberty 200SN herbicide</p> <p>Tank mix PURSUIT 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	Minimum of 110 L/ha
Remarks	<p><b>WARNING</b> Apply PURSUIT 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>

**CROP: EDIBLE BEANS (including dry common beans of the species *Phaseolus vulgaris*<sup>1,2</sup>, lima beans (Ontario only) and adzuki beans)**

Apply PURSUIT herbicide as a pre-emergent treatment in lima beans (Ontario only), dry common beans of the species *Phaseolus vulgaris* and adzuki beans, and as a pre-plant incorporated treatment in dry common beans of the species *Phaseolus vulgaris* and adzuki beans.

<sup>1</sup> *Dry common bean varieties may vary in their tolerance to herbicides, including PURSUIT herbicide. Since not all dry common bean varieties have been tested for tolerance to PURSUIT herbicide, first use of PURSUIT herbicide should be limited to a small area of each variety 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 dry common beans to PURSUIT herbicide.*

<sup>2</sup> *Including, but not limited to: kidney, cranberry, yellow eye, Dutch brown, black and white beans.*

## Weed Control in Edible Beans: PURSUIT Herbicide Alone

Weeds	Application Timing	
	Pre-emergent	Pre-plant Incorporated (dry common beans of the species <i>Phaseolus vulgaris</i> and adzuki beans only)
<b>Broadleaf Weeds</b>		
lamb's-quarters	C	C
redroot pigweed	C	C
smartweed	C	C
lady's-thumb	C	C
wild mustard	C	C
velvetleaf	C <sup>1</sup>	C <sup>1</sup>
ragweed, common	PC	PC
Eastern black nightshade	C	C
<b>Grasses</b>		
foxtail, green and yellow	C	C
proso millet	PC	PC

C = Control      PC = Partial Control and Reduced Competition

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

Timing	Pre-emergent Application – Edible Beans
Rate	312 mL/ha
Water Volume	100-400 L/ha
Weeds Controlled	See “Weed Control in Edible Beans” table above.
Tank Mix Options	For fields that contain heavy infestations of broadleaf weeds other than those listed under “PURSUIT Herbicide Alone”, tank mixing may be required to provide broad-spectrum weed control.  <b>Cranberry and Kidney Beans</b> Tank mix PURSUIT herbicide with 1.15 – 1.75 L/ha (1.05-1.60 kg ai/ha) of DUAL® MAGNUM herbicide to control labelled broadleaf weeds and grasses in cranberry beans and kidney beans. Refer to the DUAL MAGNUM herbicide label for additional recommendations, precautions and restrictions not specified on this label.

Timing	Pre-plant Incorporated Application (dry common beans of the species <i>Phaseolus vulgaris</i> and adzuki beans only)
Rate	312 mL/ha
Water Volume	100-400 L/ha
Weeds Controlled	See “Weed Control in Edible Beans” table above.

Tank Mix Options	<p><b>White Beans</b> Tank mix PURSUIT herbicide with 1.25-2.4 L/ha of TREFLAN EC herbicide to control a broader spectrum of weeds in white beans only. Follow recommendations, precautions and restrictions on the TREFLAN EC herbicide label. Consult the tank mix partner label for weeds controlled other than those listed for PURSUIT herbicide alone.</p> <p><b>Dry Common Beans of the Species <i>Phaseolus vulgaris</i></b><sup>1,2</sup> Tank mix PURSUIT herbicide with 1.15 – 1.75 L/ha (1.05 - 1.60 kg ai/ha) of DUAL® Magnum/DUAL II Magnum herbicide to control labelled broadleaf weeds and grasses in dry common beans. Refer to the DUAL Magnum/DUAL II Magnum herbicide label for additional recommendations, precautions and restrictions not specified on this label. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.</p> <p><sup>1</sup> NOTE: Dry common bean varieties may vary in their tolerance to herbicides, including the tankmix of PURSUIT plus DUAL Magnum/DUAL II Magnum. Since not all dry common bean varieties have been tested for tolerance to the tankmix of PURSUIT plus DUAL Magnum/DUAL II Magnum, first use of this tankmix should be limited to a small area of each variety 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 dry common beans to the tankmix of PURSUIT plus DUAL Magnum/DUAL II Magnum.</p> <p><sup>2</sup> CAUTION: Beans should be seeded at least 4 cm deep or crop injury may result.</p>
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**CROP: IMAZETHAPYR TOLERANT CORN\* (i.e., Clearfield® BRANDS)**

Apply PURSUIT herbicide as a pre-plant incorporated, pre-emergent or early post-emergent treatment on imazethapyr tolerant corn.

Tank mixing may be required to provide broad-spectrum weed control for fields that contain weeds other than those listed in the “Weed Control in Imazethapyr Tolerant Corn: PURSUIT Herbicide Alone” table below. Selection of product for tank mixing will depend on the specific weed(s) that are to be controlled. Consult the labels of the tank mix products to determine which will provide control of the specific weeds present in the field.

**Weed Control in Imazethapyr Tolerant Corn: PURSUIT Herbicide Alone**

Weeds	Application Timing		
	Pre-plant Incorporated	Pre-emergent	Early Post-emergent
<b>Broadleaf Weeds</b>			
lamb’s-quarters	C <sup>2</sup>	PC	PC
redroot pigweed	C	C	C
velvetleaf	C <sup>1</sup>	C <sup>1,2</sup>	C <sup>1,2</sup>
Eastern black nightshade	C	C	C
<b>Grasses</b>			
foxtail, green and yellow	C	PC	C
barnyard grass	PC	C	C <sup>2</sup>

C = Control      PC = Partial Control and Reduced Competition

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

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

Timing	<b>Pre-plant Incorporated Application – Imazethapyr Tolerant Corn</b> Incorporate PURSUIT herbicide 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 Imazethapyr Tolerant Corn” table above.
Remarks	DO NOT apply PURSUIT herbicide 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	Tank mix PURSUIT herbicide with either atrazine or DUAL® herbicide to provide a broader spectrum of weed control. Follow rates, recommendations, precautions and restrictions on the atrazine or DUAL herbicide label.

Timing	<b>Pre-emergent Application – Imazethapyr Tolerant Corn</b> Pre-emergent applications of PURSUIT herbicide may be applied before the crop and weeds emerge.
Rate	312 mL/ha
Water Volume	100-400 L/ha
Weeds Controlled	See “Weed Control in Imazethapyr Tolerant Corn” table above.
Tank Mix Options	Tank mix PURSUIT herbicide with either PROWL®, BANVEL® or atrazine herbicide to provide a broader spectrum of weed control. Follow rates, recommendations, precautions and restrictions on the PROWL, BANVEL or atrazine herbicide label.

Timing	<b>Early Post-emergent Application – Imazethapyr Tolerant Corn</b> Apply PURSUIT herbicide before or after the crop has emerged and before the weeds reach the 2 true leaf stage.
Rate	312 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 Imazethapyr Tolerant Corn” table above.
Remarks	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.
Tank Mixing	Tank mix PURSUIT herbicide with either PROWL, atrazine, BANVEL or MARKSMAN® herbicide to provide a broader spectrum of weed control. Follow rates, recommendations, precautions and restrictions on the PROWL, atrazine, BANVEL or MARKSMAN herbicide label.

**CROP: PROCESSING PEAS**

Timing	<b>Pre-emergent or Pre-plant Incorporated Application</b>
Rate	312 mL/ha
Water Volume	200 L/ha
Weeds Controlled	Weeds found in the "PURSUIT Herbicide Alone: Weed Control in Soybeans" table.

**CROP: SNOW PEAS**

Timing	<b>Pre-emergent or Pre-plant Incorporated Application</b>
Rate	312 mL/ha
Water Volume	100-400 L/ha
Weeds Controlled	Weeds found in the "PURSUIT Herbicide Alone: Weed Control in Soybeans" table.

**CROP: SNAP BEANS**

Timing	<b>Pre-emergent Application</b>
Rate	312 mL/ha
Water Volume	200 L/ha
Weeds Controlled	Weeds found in the "PURSUIT Herbicide Alone: Weed Control in Soybeans" table.

**CROP: ALFALFA GROWN FOR SEED PRODUCTION**

Timing	<b>Post-emergent Application</b> Apply early post-emergent when weeds are less than 7.5 cm (3 in.) tall. Apply only after the crop has one fully developed trifoliate leaf.
Rate	312 – 420 mL/ha
Water Volume	200 L/ha
Surfactant/Adjuvant	A non-ionic surfactant at the rate of 0.25% (v/v) <b>MUST BE ADDED</b> to the spray solution (e.g., 2.5 L of surfactant per 1000 L of spray solution). Fertilizer solutions, 10-34-0, 28-0-0 or 32-0-0 <b>MUST BE ADDED</b> to the spray solution at the rate of 2 L/ha to provide quicker burndown of weeds.
Weeds Controlled	Weeds found in the "PURSUIT Herbicide Alone: Weed Control in Soybeans" table.

## 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 PURSUIT herbicide 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 PURSUIT herbicide. 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
Dry Common Beans of the species <i>Phaseolus vulgaris</i> and Adzuki Beans	100
Imazethapyr Tolerant Corn	100
Lima Beans	90
Processing Peas	50
Snow Peas	60
Snap Beans	40

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 PURSUIT herbicide may be made during the season.
6. DO NOT apply PURSUIT herbicide 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 PURSUIT herbicide when crop is under stress conditions because crop injury may result.
9. Post-emergent application of PURSUIT herbicide to soybeans may cause stunting. This condition is the result of stem inter-node shortening and does not cause yield reductions if PURSUIT herbicide has been used at label rates and following label recommendations.
10. PURSUIT herbicide 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 PURSUIT herbicide 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.

## **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, PURSUIT herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to PURSUIT 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 PURSUIT herbicide or other Group 2 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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 BASF at 1-877-371-2273.

## 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. 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., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

## ENVIRONMENTAL HAZARDS

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

## STORAGE

1. Store the leftover product in original tightly closed container.
2. 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.
3. **DO NOT** ship or store the product near food, feed, seed and fertilizers.
4. 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.

## FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If 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.

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

## TOXICOLOGICAL INFORMATION

Treat symptomatically.

## 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. The user assumes the risk to persons or property that arises from any such use of this product.

BANVEL and MARKSMAN are registered trade-marks of BASF Corporation and BASAGRAN and PROWL are registered trade-marks of BASF SE, all used with permission by BASF Canada Inc.

®Unless otherwise specified, products listed are registered trade-marks of their respective companies.

\*Methods of growing plants which are resistant to certain acetohydroxyacid synthase (AHAS) herbicides are protected by Canadian Patent No. 1341465. The use of this product in the practice of patented methods could constitute patent infringement. The purchase of this product conveys no license to the purchaser to practice the patented methods. Further information can be obtained by contacting BASF Canada at 1-877-371-2273.

GROUP	<b>2</b>	HERBICIDE
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**COMMERCIAL (AGRICULTURAL)  
(NOT FOR SALE FOR USE IN PRAIRIE PROVINCES)  
SOLUTION**

**GUARANTEE:** Imazethapyr .....240 g/L

**REGISTRATION NO. 21537                      PEST CONTROL PRODUCTS ACT**

**READ THE LABEL AND ATTACHED BROCHURE BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT  
1-800-454-2673

**NET CONTENTS:** 3.3 Litres

BASF Canada Inc.  
100 Milverton Drive  
5<sup>th</sup> Floor  
Mississauga, Ontario  
L5R 4H1  
1-877-371-2273

PURSUIT is a registered trade-mark of BASF Agrochemical Products B.V., used with permission by BASF Canada Inc. ©BASF Canada Inc., 1990

## 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. 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., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).
15. **DO NOT APPLY BY AIR.**

## ENVIRONMENTAL HAZARDS

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

1. Store the leftover product in original tightly closed container.
2. 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.
3. DO NOT ship or store the product near food, feed, seed and fertilizers.
4. 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.

## FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If 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.

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

## **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

## **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. The user assumes the risk to persons or property that arises from any such use of this product.

TEXT FOR JUG SLEEVE

# SENCOR FOR SOYBEANS

GROUP	<b>5</b>	HERBICIDE
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SUSPENSION CONCENTRATE  
AGRICULTURAL

NET CONTENTS: 5L to 10 L

Contains Metribuzin

For control of certain grasses and broadleaf weeds

GUARANTEE: Metribuzin ..... 480 g/L

CONTAINS 1,2-BENZISOTHIAZOLIN-3-ONE AT 0.006% AS A PRESERVATIVE

REGISTRATION NUMBER 29346 PEST CONTROL PRODUCTS ACT



CAUTION

POISON

KEEP OUT OF REACH OF CHILDREN

SHAKE WELL BEFORE USING

READ THE LABEL AND THE BOOKLET BEFORE USING.

Product Information : 1-888-283-6847

Bayer CropScience Inc.  
Suite 100, 3131 114th Avenue S.E.  
Calgary, Alberta T2Z 3X2

In case of spills, poisoning or fire, telephone emergency response number 1-800-334-7577  
(24 hours a day).

### **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. The user assumes the risk to persons or property that arises from any such use of this product.

### **DIRECTIONS FOR USE**

See the printed booklet provided with this container.

### **PRECAUTIONS**

- **KEEP OUT OF REACH OF CHILDREN.**

- Harmful if swallowed, inhaled or absorbed through skin.
- Avoid contact with skin, eyes, or clothing.
- Avoid breathing dust or spray mist.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Wash contaminated clothing with soap and hot water before re-use.
- Wash skin thoroughly with soap and warm water after handling.
- Do not contaminate any body of water.
- Do not contaminate food or feed.
- Read and follow label instructions and directives.
- 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., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

### **Applicators and other handlers must wear during mixing/loading, clean-up and repair activities:**

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves;
- Goggles or face shield;
- Shoes plus socks.

### **NOTE:**

- Users should remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE) or use detergent and hot water. Keep and wash PPE separately from other laundry.

### **FIRST AID**

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

- **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 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.



## **TOXICOLOGICAL INFORMATION**

**TO PHYSICIAN:** No specific antidote is available. Treat the patient symptomatically.

**SYMPTOMS OF POISONING:** The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

## **SPRAYER CLEANUP**

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops. Drain any remaining spray solution of SENCOR FOR SOYBEANS from the spray tank and discard in non-crop areas away from water supplies. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of 250 mL/100 L of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of the spray tank, nozzles or spray rig.

## **TRIPLE RINSE PROCEDURE**

1. Empty container into spray tank. Then drain in vertical position for 30 seconds;
2. Add a measured amount of rinse water (or other diluent) so container is 1/4 or 1/5 full;
3. Rinse container thoroughly, pour into tank, and drain 30 seconds. Repeat three times. Add enough water to bring tank up to desired level.

## **DISPOSAL**

### **For Recyclable Container:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

**Returnable Container:** Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**Returnable-Refillable Container:** For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

### **For non-recyclable Container**

1. Thoroughly rinse the emptied plastic bag, or triple-rinse the empty container, and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the plastic bag/container prior to its disposal.
3. Make the empty plastic bag/container unsuitable for further use.
4. Dispose of the plastic bag/container in accordance with provincial requirements.

For information on the 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.

® SENCOR FOR SOYBEANS is a Reg. TM of Bayer.

# SENCOR FOR SOYBEANS

GROUP	5	HERBICIDE
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SUSPENSION CONCENTRATE

AGRICULTURAL

Contains metribuzin

For control of certain grasses and broadleaf weeds

GUARANTEE: Metribuzin ..... 480 g/L

CONTAINS 1,2-BENZISOTHIAZOLIN-3-ONE AT 0.006% AS A PRESERVATIVE

**REGISTRATION NUMBER 29346 PEST CONTROL PRODUCTS ACT**



**CAUTION**

**POISON**

**KEEP OUT OF REACH OF CHILDREN**

**SHAKE WELL BEFORE USING**

**READ THE LABEL AND BOOKLET BEFORE USING**

**Product Information: 1-888-283-6847**

Bayer CropScience Inc.  
Suite 100, 3131 114th Avenue S.E.  
Calgary, Alberta T2Z 3X2

**In case of spills, poisoning or fire, telephone emergency response number 1-800-334-7577 (24 hours a day).**

### **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. The user assumes the risk to persons or property that arises from any such use of this product.

### **GENERAL INFORMATION**

#### **PRECAUTIONS**

- **KEEP OUT OF REACH OF CHILDREN.**
- Harmful if swallowed, inhaled or absorbed through skin.
- Avoid contact with skin, eyes, or clothing.
- Avoid breathing dust or spray mist.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Wash contaminated clothing with soap and hot water before re-use.
- Wash skin thoroughly with soap and warm water after handling.
- Do not contaminate any body of water.
- Do not contaminate food or feed.
- Read and follow label instructions and directives.
- 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., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

#### **Applicators and other handlers must wear during mixing/loading, clean-up and repair activities:**

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves;
- Goggles or face shield;
- Shoes plus socks.

#### **NOTE:**

- Users should remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE) or use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **FIRST AID**

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

- **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 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.

### **TOXICOLOGICAL INFORMATION**

**TO PHYSICIAN:** No specific antidote is available. Treat the patient symptomatically.

**SYMPTOMS OF POISONING:** The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

### **ENVIRONMENTAL HAZARDS**

- Do not use treated vines or crops for food, feed, or forage unless they are specified on this label. Use only according to label direction.
- Do not apply when weather conditions favour drift from areas treated. Do not allow sprays to drift on to adjacent desirable plants.
- Do not contaminate water when disposing of equipment wash waters.
- Do not apply directly to water, or to areas where surface water is present.
- The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow.
- Following application and during rainfall events that cause runoff, these chemicals may reach surface water bodies including streams and reservoirs.
- To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted, fine textured or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast.
- Do not exceed rates recommended on this label. Uneven application such as swath overlapping, variable tractor speed, spraying on turns, etc., may result in crop injury and increase chances of injury to succeeding crops.
- After harvest, tillage practices that provide thorough mixing of the soil may be helpful in reducing the chance of injury to succeeding crops.
- This product is not to be used in combination with any other product except as specifically recommended on this label.

### **SPRAYER CLEANUP**

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops. Drain any remaining spray solution of SENCOR FOR SOYBEANS from the spray tank and discard in non-crop areas away from water supplies. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of 250 mL/100 L of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of the spray tank, nozzles or spray rig.

### **TRIPLE RINSE PROCEDURE**

1. Empty container into spray tank. Then drain in vertical position for 30 seconds;
2. Add a measured amount of rinse water (or other diluent) so container is 1/4 or 1/5 full;
3. Rinse container thoroughly, pour into tank, and drain 30 seconds. Repeat three times. Add enough water to bring tank up to desired level.

### **DISPOSAL**

#### **For Recyclable Container:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

**Returnable Container:** Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**Returnable-Refillable Container:** For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

**For non-recyclable Container**

1. Thoroughly rinse the emptied plastic bag, or triple-rinse the empty container, and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the plastic bag/container prior to its disposal.
3. Make the empty plastic bag/container unsuitable for further use.
4. Dispose of the plastic bag/container in accordance with provincial requirements.

For information on the 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.

## DIRECTIONS FOR USE

### MIXING AND SPRAYING INSTRUCTIONS

- It is essential that the sprayer be properly calibrated before making application.
- Spray Pressure - 150 to 275 kPa.
- Spray Volume - refer to appropriate crop section for water volume.
- Use screens no finer than 0.3 mm (50 mesh) in nozzle and in-line strainers (felt filters, or smaller screens will become clogged). A 16 mesh screen is recommended for the filter on the inlet side of the pump.
- Nozzle tips should be no finer than 6502, 8002 or TK 2.
- Do not use airblast or other high pressure spray equipment to apply SENCOR FOR SOYBEANS.
- VIGOROUS, CONTINUOUS AGITATION IS ESSENTIAL FOR PROPER MIXING THROUGHOUT FILLING AND SPRAYING OPERATIONS. Return line agitation is not sufficient. Sparge tube, jet or mechanical agitation is required. Agitation should be sufficient to create a rippling or rolling action on the surface. A pump must be of sufficient capacity to provide adequate volume through the by-pass and/or jet agitation system to provide sufficient agitation even while the booms are operating.
- The sprayer should be checked frequently during application to be sure it is working properly and delivering a uniform spray pattern.
- Avoid over-laps that will increase dosages above those recommended.
- **DO NOT APPLY BY AIR.**

Before mixing SENCOR FOR SOYBEANS and its labelled tank-mixtures, examine the spray equipment making sure it is completely clean and free of rust or corrosion. To ensure the equipment is free of any residues from previously used pesticides, flush lines with clean water or recommended detergents. Use an approved method for disposing of rinse water.

Refer to the other product label for pertinent recommendations regarding mixing procedures. The proper mixing sequence for SENCOR FOR SOYBEANS and recommended tank-mixtures is as follows:

1. Fill the spray tank or nurse tank 1/4 full with water.
2. Start recirculation and agitation system and continue throughout mixing and application.
3. Add recommended amount of SENCOR FOR SOYBEANS.

4. Fill the spray tank with water to the desired level.
5. If tank-mixing with soluble products, add these products near end of filling the spray tank.
6. Continue agitation during transport and application until the spray tank is empty.

SENCOR FOR SOYBEANS and all registered mixtures should be kept agitated once mixed and then sprayed out immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture may affect how long the mixture can stand before application.

NOTE: If spraying and agitation is stopped before the spray tank is empty, the suspended material will settle to the bottom of the tank. When spraying must be interrupted, it is recommended to maintain agitation until spraying resumes. If agitation must be stopped before the spray tank is empty, follow these steps to resume spraying:

1. Remove main filter.
2. Mechanically mix spray solution (i.e., paddle) prior to restarting pump. Ensure that loose sediment is moved out to the sump area.
3. Start agitation on full.
4. Paddle corners of the tank.
5. Reinstall main filter.

At the end of each spray day, rinse out the tank and sprayer lines with water.

#### **RE-ENTRY INTERVAL**

Do not enter or allow re-entry into treated areas until 12 hours after application. Exception: If the product is soil-injected or soil-incorporated, workers may enter the treated area if there will be no contact with anything that has been treated.

It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area during application.

#### **SPRAY DRIFT MANAGEMENT**

Field sprayer application: **DO NOT** apply during periods of dead calm or when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.

#### **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, woodlots, hedgerows, pastures, rangelands, and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), and estuarine/marine habitats.

Crop	Method of Application	Buffer Zones (metres) Required for the Protection of:						
		Freshwater Habitats of Depths			Estuarine/Marine Habitats of Depths			Terrestrial Habitat
		Less than 1 m	1–3 m	Greater than 3 m	Less than 1 m	1–3 m	Greater than 3 m	
Soybeans	Field sprayer	5	2	1	5	2	1	10
	Field sprayer with shrouds	2	1	0	2	1	0	3
	Field sprayer with cones	4	1	1	4	1	1	5

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, SENCOR FOR SOYBEANS is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to SENCOR FOR SOYBEANS and other Group 5 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 SENCOR FOR SOYBEANS or other Group 5 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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 Bayer CropScience via Internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or phone 1-888-283-6847.

## **EASTERN CANADA USES**

### **CROP INFORMATION AND RESTRICTIONS**

SENCOR FOR SOYBEANS provides selective weed control in soybeans.

SENCOR FOR SOYBEANS may injure rotational crops:

- Rotation crops such as onions, celery, peppers, cole crops, lettuce and spinach, sugar beets, table beets and turnips, pumpkin and squash, cucumbers and melons, tobacco, and non-triazine tolerant canola (rapeseed) are sensitive to SENCOR FOR SOYBEANS and may be injured if planted in soil treated with SENCOR FOR SOYBEANS during the year of application or the following crop year.
- Fall seeded or cover crops such as wheat, oats, and rye may be injured when seeded within the same season as the application of SENCOR FOR SOYBEANS.

### **WEEDS CONTROLLED**

NOTE: SENCOR FOR SOYBEANS DOES NOT CONTROL TRIAZINE TOLERANT WEED BIOTYPES

#### **GRASS WEEDS**

Barnyard grass	Green foxtail
Cheat grass	Johnson grass (seedling)
Crab grass	Witch grass
Fall panicum	Yellow foxtail
Giant foxtail	

#### **BROADLEAF WEEDS**

Carpetweed <sup>1</sup>	Prickly mallow <sup>1</sup>
Cocklebur	Prostrate pigweed
Common chickweed	Redroot pigweed
Common ragweed	Russian thistle
	Shepherd's purse
Dandelion (seedling)	Stinkweed <sup>2</sup>
Green smartweed	Velvetleaf
	Wild buckwheat <sup>2</sup>
Jimsonweed <sup>1</sup>	Wild mustard
Lady's-thumb	Wild potato vine
Lamb's-quarter	Yellow woodsorrel <sup>1</sup>

1. PREEMERGENCE only
2. POSTEMERGENCE only

### **SOIL TYPES AND RESTRICTIONS**

The recommended use rates of SENCOR FOR SOYBEANS are dependent upon soil texture and organic matter content of the soil being treated. Rate tables in this label refer to the following three soil texture groups: coarse, medium and fine. If you are not sure how to classify your soil, contact your Bayer CropScience representative, Soils & Crops Advisor, or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil texture groupings:



COARSE	MEDIUM	FINE
Loamy sand Sandy loam	Loam Silt loam Silt Sandy clay loam Sandy clay	Silty clay loam Silty clay Clay loam Clay

- On variable soils with coarse sandy areas, some crop injury may occur on the sandy areas if the rate used is for the finer soil type.
- Sandy loam and silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions.
- Do not use this product on MUCK soils. If SENCOR FOR SOYBEANS is applied to MUCK soils, subsequent crops may be injured.
- Do not use on coarse soils with less than 2% organic matter.

## APPLICATION INFORMATION

### PREPLANT SURFACE OR BURN-DOWN:

- In conservation tillage, minimum-tillage, ridge-tillage, strip-tillage, or no-tillage crop production systems.
- SENCOR FOR SOYBEANS alone or in combination with recommended tank-mixes may be applied as a broadcast spray up to 30 days before planting.
- If possible, do not move treated soil out of the row or move untreated soil to the soil surface during planting, as weed control may be reduced.
- Rainfall and/or overhead sprinkler irrigation is necessary to move SENCOR FOR SOYBEANS into the upper soil surface where weed seeds germinate.

### PREEMERGENCE APPLICATION:

- SENCOR FOR SOYBEANS alone, or in the recommended tank-mixes, may be applied to the soil surface as a broadcast spray after planting of the crop, but prior to weed or crop emergence.
- Preemergence application may be made in all tillage systems (conventional, conservation, minimum, ridge, etc.).
- Rainfall and/or overhead sprinkler irrigation is necessary to move SENCOR FOR SOYBEANS the upper soil surface where weed seeds germinate.
- If adequate moisture is not received within 7 to 10 days after application and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than 1.25 cm deep) will improve performance, minimize crop damage, activate chemical and prevent soil crusting.
- Dry weather conditions as well as excessive rainfall or irrigation following application may reduce weed control.
- Do not apply heavy irrigation immediately after application.

## SOYBEANS - EASTERN CANADA

- Apply specified dosage as preemergence broadcast spray in 150 to 300 L of water per hectare.
- Applications of SENCOR FOR SOYBEANS made at rates above those recommended may result in burning, yellowing or stunting of the crop. If heavy rains occur soon after application, plant injury may result, especially in poorly drained areas where water may stand for several days. Soybean seeds must be planted at least 4 cm below the soil surface.
- VARIETIES: Do not use SENCOR FOR SOYBEANS on AC Brant, Apache, Baron, Eramosa, Maple Amber, Maple Ridge, IA 1003 or S-240. Consult your Bayer CropScience representative, chemical dealer, or your seed supplier for information on the tolerance of soybean varieties, prior to SENCOR FOR SOYBEANS use.

## SENCOR FOR SOYBEANS

- DO NOT USE SENCOR FOR SOYBEANS ON SANDY SOILS OR ON COARSE SOILS WITH LESS THAN 2% ORGANIC MATTER.
- Do not apply more than once per season regardless of method of application.

### SENCOR FOR SOYBEANS IN COMBINATION WITH OTHER HERBICIDES

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

### SENCOR FOR SOYBEANS Tank-Mixes (No or Minimum Tillage Systems): Preplant Surface (up to 30 days before planting) or Burndown Application

Weeds controlled	Products <sup>1</sup>	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual weeds less than 4 cm in height and residual control of annual weeds <sup>2</sup> , including triazine tolerant weed species and grasses	SENCOR FOR SOYBEANS <sup>3</sup> plus Pursuit (240 g a.e./L)	Do not use	800 mL-1.5L 312 - 420 mL	960 mL-2.0L 312 - 420 mL
For improved burndown of above including control of annual weeds taller than 4 cm and emerged perennial weeds	Above treatment plus Roundup Original 360 Liquid <sup>4</sup> or Roundup Transorb Liquid <sup>4</sup> or Glyphos AU Soluble Concentrate <sup>4</sup>	Do not use	1.25 L 1.25 L 1.25 L	1.25 L 1.25 L 1.25 L

1. Under adverse conditions (drought), and for improved burndown of small emerged annual weeds, the following additives may be applied with the recommended treatments:
  - crop oil concentrate (Assist) at 1% v/v
  - non-ionic surfactant at 0.1% v/v
2. Use the higher rate for the control of grass weeds or when broadleaf weeds are dense.
3. Use the higher rates when weeds are dense and/or soils with high organic matter (over 4%) and at the heavy end of the soil texture class.
4. It is recommended that liquid formulations of products be used when tank-mixing with Roundup Herbicide. Perennial weeds, such as quackgrass, may not be controlled with lower rates of Roundup. Consult the Roundup label regarding perennial weeds controlled.

**SENCOR FOR SOYBEANS Tank Mixes: Preemergence Applications (for all tillage systems unless specified otherwise)**

Weeds controlled	Products	Rates per hectare and soil types		
		COARSE	MEDIUM	FINE
Annual grasses and broadleaf weeds plus partial control of eastern black nightshade and Proso millet	Conventional Tillage SENCOR FOR SOYBEANS <sup>2</sup> plus Pursuit (240 g a.e./L)	850 mL-1.1 L 312 – 420 mL	1.1-1.75 L 312 – 420 mL	1.75 - 2.25 L 312 – 420 mL
	No or Min. Tillage SENCOR FOR SOYBEANS <sup>1,3</sup> plus Pursuit (240 g a.e./L)	Do not use	800 mL-1.5 L 312 – 420 mL	960 mL-2.0L 312 – 420 mL
For improved burndown of weeds listed above, including control of weeds taller than 4 cm and emerged perennials	Above treatment in No or Min. Tillage plus Roundup Original 360 Liquid <sup>4</sup> or Roundup Transorb Liquid <sup>4</sup> or Glyphos AU Soluble Concentrate <sup>4</sup>	Do not use	1.25 L 1.25 L 1.25 L	1.25 L 1.25 L 1.25 L

- In NO or MINIMUM TILLAGE, under adverse conditions (drought), and for improved burndown of small emerged annual weeds, the following additives may be applied with the recommended treatments:
  - crop oil concentrate (Assist) at 1% v/v
  - non-ionic surfactant at 0.1% v/v
- The rate of SENCOR FOR SOYBEANS depends on soil organic matter levels:

Soil Types	Rates per hectare and organic matter		
	Less than 2%	2 to 4%	Over 4%
COARSE	DO NOT USE	850 mL	1.1 L
MEDIUM	1.1 L	1.5 L	1.75 L
FINE	1.75 L	2.0 L	2.25 L

- Use the higher rates when weeds are dense and/or soils with high organic matter (over 4%) and at the heavy end of the soil texture class.
- It is recommended that liquid formulations of products be used when tank-mixing with Roundup Herbicide. Perennial weeds, such as quackgrass, may not be controlled with lower rates of Roundup. Consult the Roundup label regarding perennial weeds controlled.

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