GROUP 2 HERBICIDE

# PURSUIT® 240

# **HERBICIDE**

# COMMERCIAL (AGRICULTURAL)

FOR SALE FOR USE IN THE PRAIRIE PROVINCES & INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

#### SOLUTION

ACTIVE INGREDIENT: imazethapyr ... 240 g/L

REGISTRATION NO. 23844 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 0.2 L - 150 L

IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS PRODUCT, CALL DAY OR NIGHT

1-800-454-2673

READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

BASF Agricultural Solutions Canada Inc. 510 - 28 Quarry Park Blvd. SE Calgary, Alberta T2C 5P9 1-877-371-2273

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# **PRECAUTIONS**

#### KEEP OUT OF REACH OF CHILDREN.

MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN.

DO NOT CONTAMINATE FOOD OR FEED PRODUCTS.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

AVOID BREATHING VAPOUR OR SPRAY MIST.

May cause eye damage.

May cause skin irritation.

Use with adequate ventilation.

Wear dust and/or splash-proof goggles or face shield and chemical-resistant gloves when mixing, loading and during application, clean-up and repair.

Wear long-sleeved shirt and long-legged pants when handling.

Do not eat, drink or smoke when using.

Wash hands and face before eating, drinking, smoking and using the toilet.

Wash thoroughly with soap and water after handling.

Take a shower IMMEDIATELY after work.

Store and wash all protective clothing separately from normal laundry.

Clean protective equipment (gloves, goggles, face shield) upon removal with soapy water.

Wash in detergent and hot water before reuse.

Wear freshly laundered clothes daily.

DO NOT APPLY BY AIR.

#### **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.

# **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.

#### **STORAGE**

Keep 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.

#### 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 the disposal of unused, unwanted product, contact, the manufacture 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

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# **NOTICE TO USER**

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# 1. GENERAL INFORMATION

PURSUIT 240 is a selective herbicide that can be applied as an early post-emergence treatment in alfalfa (newly seeded purestand for forage or seed production and established for seed production), chickling vetch (seed production only), dry beans (Pinto, Pink, Red), field peas, and soybeans (Manitoba only).

Do not spray before all weeds have emerged. When PURSUIT 240 is applied early post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

#### 2. 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.

#### 3. REGISTERED USES

# 3.1 REGISTERED SOIL ZONES

Pursuit 240 is only registered in the black and grey wooded soil zones of the Prairie Provinces. PURSUIT 240 is not registered for use in the brown and dark brown soil zones with the exception of dry beans and alfalfa (newly seeded purestand for forage or seed production) under irrigation.

# 3.2 REGISTERED CROPS

PURSUIT 240 is registered for use as an early post-emergence in the following crops.

- Alfalfa (newly seeded purestand for forage or seed production)
- Alfalfa (established for seed production)
- Chickling vetch (seed production only)
- Dry beans (pinto, pink, red)
- Field peas
- Soybeans (Manitoba only)

# 4. DIRECTIONS FOR USE

Do not enter or allow entry into treated areas during the restricted-entry interval of 12 hours.

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**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

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 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.

# 4.1 CROP USE RATES

Crop	Use Rate (mL/ha)	Water Volume (L/ha)
Alfalfa (newly seeded purestand for forage or	210	100-400
seed production)		
Alfalfa (established for seed production)	210	100-400
Chickling vetch (seed production only)	210	100-400
Dry beans (pinto, pink, red)	210	100-400
Field peas	210	100-400
Soybeans (Manitoba only)	210	100-400

For all applications, a non-ionic surfactant containing at least 80% active ingredient (Agral® 90, Agsurf®) at the rate of 0.25% (v/v) must be added to the spray solution (e.g., 2.5 L of surfactant per 1000 L of spray solution).

See crop specific section for additional details.

# 4.2 WEEDS CONTROLLED

# **EARLY POST- EMERGENCE WEED CONTROL (up to and including the 4 leaf stage)**

	Α	pplication Timing
Weeds	Field Peas	Newly seeded pure stand alfalfa for forage or seed production
Broadleaf weeds		
Common groundsel	-	PC
Chickweed*	С	-
Cleavers*	С	-
Green smartweed	-	С
Hemp-nettle	С	-
Redroot pigweed	С	С
Shepherd's purse*	С	PC
Smartweed	С	-
Stinkweed*	С	С
Volunteer canola	С	С
Wild buckwheat	S	-
Wild mustard*	С	С
Grasses		
Green foxtail	С	PC
Wild oats	S	-

C = Control PC = Partial Control and Reduced Competition S = Suppression

# 4.3 CROP SPECIFIC RECOMMENDATIONS

# 4.3.1 FIELD PEAS

Timing	Early post-emergence
Soil Zones	PURSUIT 240 is registered for use in black and grey wooded soils ONLY.
Rate	210 mL/ha + adjuvant
Weeds Controlled	See Section 4.2 for a complete list of weeds controlled.

<sup>\*</sup> Certain populations of these weed are known to be resistant to group 2. If you suspect this potential on your farm, follow recommendations in Resistance-Management Recommendations, Section 7.

Remarks	PURSUIT 240, by early post-emergence application up to the 4-true leaf stage of the weeds, will control weeds listed in Section 4.2.
	Field peas up until the sixth (6th) trifoliate leaf stage.
	An interval of 60 days must follow the PURSUIT 240 application before field peas are harvested.
	Field peas treated with PURSUIT 240 may be fed to livestock 30 days after application.

# 4.3.2 ALFALFA (NEWLY SEEDED PURESTAND FOR FORAGE OR SEED PRODUCTION)

Timing	Early post-emergence
Soil Zones	Black, grey wooded and irrigated brown soil zones.
Rate	210 mL/ha + adjuvant
Weeds Controlled	See Section 4.2 for a complete list of weeds controlled.
Remarks	PURSUIT 240 can be applied as an early post-emergence treatment in newly seeded purestand alfalfa in the year of establishment. PURSUIT 240 may be applied when the crop has developed at least one (1) fully expanded trifoliate leaf and up to and including the 4 leaf stage of susceptible weeds.
	PURSUIT 240 is intended for use on purestand alfalfa in the year of establishment, on stands that will remain for 3 or more years.
	Apply only in the year of establishment and only after the crop has one fully developed trifoliate leaf.
	ONLY ONE (1) application of PURSUIT 240 may be made during the life of the alfalfa stand.
	DO NOT graze or harvest for forage until 14 days after treatment.
	Mature seed from treated plants should not be used for human consumption.

# 4.3.3 ALFALFA (ESTABLISHED FOR SEED PRODUCTION PURPOSES)

Timing	Early post-emergence
Soil Zones	Black and grey wooded soil zones
Rate	210 mL/ha + adjuvant
Weeds Controlled	Stinkweed, wild mustard, volunteer canola, redroot pigweed and suppression of green foxtail
Remarks	One application per year; post-emergent; ground application; apply before alfalfa reaches 30 cm. Do not use PURSUIT 240 in the last year of the alfalfa stand.

# 4.3.4 DRY BEANS (PINTO, PINK, RED)

Timing	Early post-emergence
Soil Zones	Black, grey wooded and irrigated brown soil zones only
Rate	210 mL/ha + adjuvant
Weeds Controlled	Hairy nightshade
Remarks	One application per year; ground sprayer; apply in 100 - 400 L water/ha post-emergence; apply up to the 2nd trifoliate leaf stage of the dry bean; up to 6 leaf stage of hairy nightshade; PHI of 75 days.

# 4.3.5 CHICKLING VETCH / GRASS PEA (FOR SEED PRODUCTION ONLY)

Timing	Early post-emergence
Soil Zones	Black and grey wooded soil zones
Rate	210 mL/ha + adjuvant
Weeds Controlled	Labelled weeds
Remarks	One application per year; post-emergent; ground application; PHI 60 days; apply at the 5-7 leaf stage of chickling vetch/grass pea.

# 4.3.6 SOYBEANS (MANITOBA ONLY)

Timing	Early post-emergence
Soil Zones	Black and grey wooded soil zones
Rate	210 mL/ha + adjuvant
Weeds Controlled	Annual grass and broadleaf weeds
Remarks	Apply as post-emergent application once per season at 1 to 3 leaves of soybean growth; ground application only; PHI 85 days.

# 5. MIXING INSTRUCTIONS

- (1) Fill the spray tank one-half to three-quarters full with water.
- (2) Using a calibrated measuring device, add the required amount of PURSUIT 240 while agitating the spray solution.
- (3) While the solution remains agitating, add the required amount of non-ionic surfactant.
- (4) Fill the remainder of the tank with water.

# 6. FOLLOW CROPPING

There is the possibility of residual soil activity from PURSUIT 240 the year following application. Research studies have shown the following crops can be safely grown in black and grey wooded soil zones the year following a PURSUIT 240 application.

0 - 12 months after application     In case of crop failure, the following crops can be planted in the same season:	1 year after application     The following crops can be planted in the following season:
field peas <b>Clearfield</b> ® Canola <sup>1</sup>	spring barley spring wheat lentils alfalfa field peas <b>Clearfield</b> Canola <sup>1</sup>

Conduct a field bioassay (a test strip grown to maturity) the year BEFORE growing any other crop than those listed above.

#### 7. RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, PURSUIT 240 is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to PURSUIT 240 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 240 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 (weedcompetitive 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, contact BASF Agricultural Solutions Canada Inc. at 1-877-371-2273.

#### 8. WARNINGS

- (1) DO NOT APPLY PURSUIT 240 on brown & dark brown soil zones unless under irrigation as the follow crop label ONLY pertains to the black and grey wooded soil zones. Use in non-irrigated brown/dark brown soil zones could result in rotational crop injury.
- (2) DO NOT over-apply PURSUIT 240. Over application may result in injury particularly if the crop is under stress.
- (3) DO NOT let spray drift contaminate crops other than those being sprayed.
- (4) DO NOT apply 2 applications of PURSUIT 240 within the same year. ONLY ONE (1) application of PURSUIT 240 may be made during the season.
- (5) DO NOT tank-mix PURSUIT 240.
- (6) In cases of crop failure, only field peas or **Clearfield** Canola<sup>1</sup> (e.g. canola varieties with the **Clearfield** trait) may be re-planted in the year of application.
- (7) DO NOT APPLY BY AERIAL APPLICATION GROUND APPLICATION ONLY.

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<sup>1</sup>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 Agricultural Solutions Canada Inc. at 1-877-371-2273.