

2015-0724  
2015-03-20

GROUP	3	HERBICIDE
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## **PROWL® H<sub>2</sub>O HERBICIDE**

Microencapsulated Pendimethalin in an Aqueous Carrier

MICROCAPSULE SUSPENSION

**COMMERCIAL (AGRICULTURAL)**

(NOT FOR SALE FOR USE IN PRAIRIE PROVINCES,  
EXCEPT FOR DRY BULB ONIONS ON MINERAL SOILS, GREEN ONIONS AND  
TRANSPLANTED LEEKS ON MINERAL SOILS, CARROTS AND COMMERCIAL OUTDOOR  
ORNAMENTAL PRODUCTION)

**GUARANTEE:** Pendimethalin.....455 g/L

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one,  
each at 0.0025%, as preservatives

**REGISTRATION NO. 29542**

**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:** 5 L – 1000 L, BULK

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

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BASF Canada Inc.

## DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation/drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

### 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 and Biological Engineers (ASABE) medium classification.

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

Method of application	Crop	Buffer zones (metres) required for the protection of:						Terrestrial habitat
		Freshwater habitats of depths:			Estuarine/marine habitats of depths:			
		Less than 1 m	1 – 3 m	Greater than 3 m	Less than 1 m	1 – 3 m	Greater than 3 m	
Field sprayer*	Dry bulb onions (muck soils) and carrots (muck soil)	15	5	2	40	15	5	5
	Field corn and carrots (mineral soil), pearl millet	5	2	1	20	10	3	2
	Dry bulb onions (mineral soil - Western Canada)	5	2	1	20	5	3	2
	Dry bulb onions (mineral soil - Eastern Canada)	5	3	1	25	10	4	4
	Soybeans	5	2	1	15	5	2	2
	White and kidney beans	5	2	1	15	5	2	2
	Adzuki, snap and Lima beans	5	2	1	15	5	2	2
	Transplanted leeks and green onions (mineral soil)	5	2	1	15	5	2	2

\* For field sprayer application, buffer zones can be reduced with the use of drift-reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy or

ground, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy or ground, the labeled buffer zone can be reduced by 30%.

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.

## FIELD CORN

### GENERAL INFORMATION

**PROWL H<sub>2</sub>O** herbicide applied on corn will control certain annual grass and annual broadleaved weeds (see appropriate section under Application Directions for weeds controlled).

**PROWL H<sub>2</sub>O** herbicide can be applied on corn alone as a pre-emergence treatment or in tank mix with atrazine, BANVEL® II or MARKSMAN® at pre-emergence or post-emergence timings. **PROWL H<sub>2</sub>O** herbicide may also be applied as a post-emergence treatment in tank mix with Elim EP 25% DF, Elim EP 25% DF plus BANVEL II, Accent 75 DF plus BANVEL II, glyphosate or MARKSMAN + glyphosate. Apply post-emergence tank mixes with glyphosate to glyphosate tolerant corn only (i.e., varieties with the Roundup Ready® gene).

For burndown and residual control of selected annual weeds, **PROWL H<sub>2</sub>O** herbicide may be tank mixed with Roundup®<sup>1</sup> or Touchdown® iQ™ Liquid Herbicide and applied after seeding but before crop emergence.

**PROWL H<sub>2</sub>O** herbicide tank mixture treatments are most effective in controlling weeds when adequate rainfall is received within 7 days after application. If cultivation is necessary because of soil crusting, soil compaction, or weed germination before rain, use shallow tillage (such as rotary hoe), and make certain corn seeds are below the tilled area. After early post-emergence treatments, wait 7 to 10 days before cultivating. Annual grasses must be in the 2-leaf stage or smaller at the time of early post-emergence application. A shallow cultivation or rotary hoeing will generally result in improved weed control.

Read and follow the label of tank mix partner products regarding specific precautions, restrictions and application information.

### SOIL CLASSIFICATIONS

Soil textures are classified as coarse, medium and fine. These terms are further defined as follows:

- |        |   |  |
|--------|---|--|
| Coarse | - | sands, loamy sands, sandy loams                                    |
| Medium | - | sandy clay loams, sandy clays, loams, silts, silt loams            |
| Fine   | - | silty clay loams, sandy clay loams, clay loams, silty clays, clays |

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<sup>1</sup> Roundup Original Liquid Herbicide, Roundup Transorb Liquid Herbicide, Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide or Roundup Ultra2 Liquid Herbicide

## PLANT BACK RESTRICTIONS AND ROTATIONAL CROPS

For **PROWL H<sub>2</sub>O** herbicide tank mixtures, follow the cropping restrictions for the tank mix partner.

In the case of a crop failure, land treated with **PROWL H<sub>2</sub>O** herbicide can be reseeded only with the original crop (corn), provided seeding depth is below the retilled layer. Crop injury will result if seed is planted in the retilled layer of soil which is treated with **PROWL H<sub>2</sub>O** herbicide. **DO NOT** plant corn where land preparation prior to reseeding has incorporated the **PROWL H<sub>2</sub>O** herbicide into the seed germination zone.

**PROWL H<sub>2</sub>O** herbicide treated land may be planted to corn or soybeans in the year following application. Fall seeded crops (winter wheat, winter barley, winter rapeseed) should not be planted on land that was treated with **PROWL H<sub>2</sub>O** herbicide the previous spring.

## APPLICATIONS WITH LIQUID FERTILIZERS

Pre-emergence applications of **PROWL H<sub>2</sub>O** herbicide alone and of **PROWL H<sub>2</sub>O** herbicide plus atrazine, BANVEL II, or MARKSMAN can be applied in liquid fertilizers (rate of 200 litres of liquid fertilizer per hectare).

**DO NOT apply PROWL H<sub>2</sub>O herbicide post-emergence in liquid fertilizers. Apply post-emergence applications in water only.**

### Liquid Fertilizer Compatibility Determinations

If the liquid fertilizer/herbicide(s) mixture separates in the spray tank, clogged equipment and uneven application can result, which can cause poor weed control and crop injury. Always predetermine the compatibility of **PROWL H<sub>2</sub>O** herbicide alone or with other herbicides in the specific liquid fertilizer to be used according to the following directions:

1. Add 0.5 L of fertilizer to a one-litre jar.
2.
  - i) When using **PROWL H<sub>2</sub>O** herbicide alone, add to the jar the correct amount of **PROWL H<sub>2</sub>O** herbicide alone as specified in the following table.
  - ii) When using **PROWL H<sub>2</sub>O** herbicide tank mixtures, first add the specified quantity of product to be tank mixed with **PROWL H<sub>2</sub>O** herbicide (see table), and then add the correct amount of **PROWL H<sub>2</sub>O** herbicide.
3. Close the jar and shake thoroughly for 10 seconds. Let stand for 30 minutes and then observe the results. Look for signs of separation, an oily layer or globules, sludge, flakes or other precipitates.
4. Determine compatibility:
  - i) If the herbicide(s) and liquid fertilizer mixture does not separate, use this mixture in your spray tank.
  - ii) If the mixture separates, but mixes readily with shaking, the mixture can be used providing good agitation is maintained in the spray tank.

- iii) If separation of the mixture occurs and agitation does not correct this problem, DO NOT use **PROWL H<sub>2</sub>O** herbicide with that specific liquid fertilizer.

Amount of Specified Herbicide to be Added to 0.5 L of Liquid Fertilizer Solution*				
Litres of Liquid Fertilizer to be Applied per Hectare	<b>PROWL H<sub>2</sub>O</b> Herbicide Alone	Aatrex Liquid 480 or Aatrex Nine-0**	BANVEL II Herbicide	MARKSMAN Herbicide
200	9 mL	8 mL or 4 g	3 mL	11 mL

\* Based on maximum use rate used in the label for each product.

\*\* For atrazine with different concentration, adjust the rate accordingly

## RESTRICTIONS AND LIMITATIONS

DO NOT apply **PROWL H<sub>2</sub>O** herbicide more than once during a season.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide more than one year in sequence.

**DO NOT INCORPORATE OR SERIOUS CROP INJURY WILL RESULT.**

DO NOT apply **PROWL H<sub>2</sub>O** herbicide post-emergence in liquid fertilizers.

The application of **PROWL H<sub>2</sub>O** herbicide is restricted to corn grown only in medium and fine texture soils with more than 3% organic matter.

DO NOT use on corn grown in peat or muck soils.

Unless otherwise specified, DO NOT add oils or surfactant to post-emergence applications.

The seed bed should be firm and free of clods and trash. Plant corn AT LEAST 4 cm deep to ensure good seed coverage.

**PROWL H<sub>2</sub>O** herbicide controls certain annual grass and broadleaf weeds as they germinate, but will not control established weeds. Destroy existing weeds before applying **PROWL H<sub>2</sub>O** herbicide (except as recommended in specific post-emergence combination treatments or when tankmixed with glyphosate and applied as a pre-emergence treatment). Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

Applied according to label directions and under normal growing conditions, **PROWL H<sub>2</sub>O** herbicide will not cause crop injury. Over-application can result in crop stand loss, crop injury, or soil residues. Uneven application can decrease weed control or cause crop injury.

Seedling diseases, cold weather, excessive moisture, deep planting, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants and increase the possibility of crop damage from **PROWL H<sub>2</sub>O** herbicide. Under these conditions, crop yields can be reduced.

DO NOT graze the treated immature corn or cut for silage prior to 100 days after **PROWL H<sub>2</sub>O** herbicide application.

DO NOT apply to sweet corn or corn grown for seed.

## **APPLICATION DIRECTIONS**

Uniformly apply with properly calibrated ground equipment using a minimum of 200 L water per hectare.

Use a properly calibrated low-pressure (138 kPa to 276 kPa) sprayer equipped with 80° or 110° flat fan nozzles to achieve uniform spray distribution and minimize drift. Keep the by-pass line on or near the bottom of the tank to minimize foaming. Nozzle screens must be no finer than 50 mesh.

### **A. PROWL H<sub>2</sub>O Herbicide Alone**

#### **Application Timing**

Pre-emergence - after planting, before weeds or crop emerges

**Application Rate:** 3.7 L/ha **PROWL H<sub>2</sub>O** Herbicide

**PROWL H<sub>2</sub>O** herbicide alone applied as directed will control the following weeds:

#### **Grasses**

Barnyard grass  
Crabgrass (large and smooth)  
Fall panicum  
Green foxtail

#### **Broadleaf Weeds**

Lamb's-quarters<sup>1</sup>  
Redroot pigweed<sup>1</sup> (suppression only)

<sup>1</sup> includes triazine-resistant biotypes

### **B. PROWL H<sub>2</sub>O Herbicide plus Glyphosate (Roundup<sup>1</sup> or Touchdown iQ Liquid Herbicide)**

For burndown and residual control of selected annual weeds, **PROWL H<sub>2</sub>O** herbicide may be tank mixed at a rate of 3.7 L/ha with Roundup<sup>1</sup> or Touchdown iQ Liquid Herbicide and applied after seeding but before crop emergence.

Consult the glyphosate label for use rates and weeds controlled by glyphosate, as well as for further recommendations, precautions and restrictions.

<sup>1</sup> Roundup Original Liquid Herbicide, Roundup Transorb Liquid Herbicide, Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide or Roundup Ultra2 Liquid Herbicide

**C. PROWL H<sub>2</sub>O Herbicide + ATRAZINE** (Aatrex Liquid 480, Atrazine 480, Aatrex Nine-0, Atrazine 90WG or Atrazine 90WP Herbicide)

**Application Timing**

Pre-emergence - after planting, before weeds or crop emerges

Post-emergence - before the 2-leaf stage of annual grasses and up to and including the 4-leaf stage of corn

**Application Rate**

Timing	PROWL H <sub>2</sub> O Herbicide	Aatrex Liquid 480 or Atrazine 480 Herbicide*	Aatrex Nine-0, Atrazine 90WG or Atrazine 90WP Herbicide*
Pre-emergence	3.7 L/ha	3.1 L/ha	1.7 kg/ha
Post-emergence	3.7 L/ha	3.1 L/ha	1.7 kg/ha

\* for atrazine with different concentration, adjust the rate accordingly

This tank mixture applied as directed will control the following weeds:

**Grasses**

Barnyard grass  
 Crabgrass (large and smooth)<sup>1</sup>  
 Fall panicum  
 Green foxtail  
 Yellow foxtail

**Broadleaf Weeds**

Common ragweed  
 Lamb's-quarters<sup>2</sup>  
 Redroot pigweed<sup>2</sup>  
 Smartweed  
 Velvetleaf<sup>3</sup>

<sup>1</sup> pre-emergence application only

<sup>2</sup> includes triazine-resistant biotypes

<sup>3</sup> early post-emergence application only up to the 3-leaf stage of corn

**D. PROWL H<sub>2</sub>O Herbicide + BANVEL II Herbicide**

**Application Timing**

Pre-emergence - after planting, before weeds or crop emerge

Post-emergence - before the 2-leaf stage of annual grasses and up to the 4-leaf stage of corn

**Application Rate**

Timing	PROWL H <sub>2</sub> O Herbicide	BANVEL II Herbicide
Pre-emergence	3.7 L/ha	1.25 L/ha
Post-emergence	3.7 L/ha	0.6 to 1.25 L/ha



This tank mixture applied as directed will control the following weeds:

**Grasses**

- Barnyard grass<sup>1</sup>
- Crabgrass (large and smooth)<sup>2</sup>
- Fall panicum<sup>2</sup>
- Green foxtail

**Broadleaf Weeds**

- Common ragweed
- Lamb's-quarters<sup>3</sup>
- Redroot pigweed<sup>3</sup>
- Velvetleaf

- <sup>1</sup> post-emergence application provides partial control and reduces competition from this weed
- <sup>2</sup> pre-emergence application only
- <sup>3</sup> includes triazine-resistant biotypes

**Precaution**

DO NOT apply if temperature exceeds 25°C at application time.

**E. PROWL H<sub>2</sub>O Herbicide + MARKSMAN Herbicide**

**Application Timing**

- Pre-emergence - after planting, before weeds or crop emerge
- Post-emergence - before the 2-leaf stage of annual grasses

**Application Rate**

Timing	PROWL H <sub>2</sub> O Herbicide	MARKSMAN Herbicide*
Pre-emergence	3.7 L/ha	3.7 to 4.5 L/ha
Post-emergence	3.7 L/ha	3.7 to 4.5 L/ha

\* Consult the MARKSMAN label for rates, recommendations, precautions and restrictions.

This tank mixture applied as directed will control the following weeds:

**Grasses**

- Barnyard grass<sup>1</sup>
- Crabgrass (large and smooth)<sup>1</sup>
- Fall panicum<sup>2</sup>
- Green foxtail
- Old witchgrass

**Broadleaf weeds**

- Common ragweed
- Lamb's-quarters<sup>1, 3</sup>
- Redroot pigweed<sup>3</sup>
- Velvetleaf<sup>4</sup>

- <sup>1</sup> post-emergence application provides partial control and reduces competition from this weed
- <sup>2</sup> pre-emergence application only
- <sup>3</sup> includes triazine-resistant biotypes
- <sup>4</sup> pre-emergence application provides partial control and reduces competition from this weed

**Precautions**

1. DO NOT apply if temperature exceeds 25°C at application time.
2. DO NOT apply where drift may contact sensitive crops.

## F. PROWL H<sub>2</sub>O Herbicide + ELIM EP 25% DF Herbicide

### Application Timing

Post-emergence - at the 1-4 leaf stage of annual grasses and from the spike to the 3-leaf stage of corn

### Application Rate

Add a non-ionic surfactant at 0.2% v/v (2 L/1000 L) to the tank mix.

Timing	PROWL H <sub>2</sub> O Herbicide	Elim EP 25% DF
Post-emergence	2.2 L/ha	50 g/ha

This tank mixture applied as directed will control the following weeds:

#### Grasses

Barnyard grass  
Crabgrass (large and smooth)  
Fall panicum  
Green foxtail  
Old witchgrass  
Yellow foxtail

#### Broadleaf Weeds

Lamb's-quarters<sup>1,2</sup>  
Redroot pigweed<sup>1</sup>

<sup>1</sup> includes triazine-resistant biotypes

<sup>2</sup> provides partial control and reduces competition from this weed

## G. PROWL H<sub>2</sub>O Herbicide + ELIM EP 25% DF + BANVEL II

### Application Timing

Post-emergence - at the 1-4 leaf stage of annual grasses, and from the spike to the 3-leaf stage of corn

### Application Rate

Add a non-ionic surfactant at 0.2% v/v (2 L/1000 L) to the tank mix.

Timing	PROWL H <sub>2</sub> O Herbicide	Elim EP 25% DF Herbicide	BANVEL II Herbicide
Post-emergence	2.2 L/ha	50 g/ha	625 mL/ha

This tank mixture applied as directed will control the following weeds:

**Grasses**

Barnyard grass  
 Crabgrass (large and smooth)  
 Fall panicum  
 Green foxtail  
 Old witchgrass  
 Yellow foxtail

**Broadleaf weeds**

Canada thistle (top growth only)  
 Corn spurry  
 Cow cockle  
 Eastern black nightshade  
 Field bindweed  
 Green smartweed  
 Lady's-thumb  
 Lamb's-quarters<sup>1</sup>  
 Ragweed (common)  
 Redroot pigweed<sup>1</sup>  
 Perennial sow-thistle (top growth only)  
 Tartary buckwheat  
 Velvetleaf  
 Wild buckwheat  
 Wild mustard  
 Wormseed mustard

<sup>1</sup> includes triazine-resistant biotypes

**H. PROWL H<sub>2</sub>O Herbicide + ACCENT 75 DF + BANVEL II**

**Application Timing**

Post-emergence - at the 1-4 leaf stage of annual grasses, and from the spike to the 3-leaf stage of corn

**Application Rate**

Add Agral 90 at 0.2% v/v (2 L/1000 L) to the tank mix.

Timing	PROWL H <sub>2</sub> O Herbicide	Accent 75 DF Herbicide	BANVEL II Herbicide
Post-emergence	2.2 L/ha	16.7 g/ha	625 mL/ha

This tank mixture applied as directed will control the following weeds:

**Grasses**

Barnyard grass  
 Fall panicum  
 Green foxtail  
 Large crabgrass<sup>1</sup>  
 Old witchgrass  
 Yellow foxtail<sup>1</sup>

**Broadleaf weeds**

Canada thistle (top growth only)  
 Corn spurry  
 Cow cockle  
 Field bindweed  
 Green smartweed  
 Lady's-thumb  
 Lamb's-quarters<sup>2</sup>  
 Ragweed (common)  
 Redroot pigweed<sup>2</sup>  
 Perennial sow-thistle (top growth only)  
 Tartary buckwheat

Velvetleaf  
 Wild buckwheat  
 Wild mustard  
 Wormseed mustard

<sup>1</sup> suppression only

<sup>2</sup> includes triazine-resistant biotypes

## I. PROWL H<sub>2</sub>O Herbicide + Glyphosate

**PROWL H<sub>2</sub>O** herbicide may be applied in tank-mix combination with glyphosate as a post-emergence application to glyphosate tolerant corn for burndown control of emerged weeds on the glyphosate label and residual control of the following grass and broadleaf weeds.

Refer to the glyphosate label for weeds controlled in addition to those listed below:

### Grasses

Barnyard grass  
 Crabgrass (large and smooth)  
 Green foxtail

### Broadleaf Weeds

Lamb's-quarters<sup>1</sup>  
 Redroot pigweed<sup>1</sup>

<sup>1</sup> includes triazine-resistant biotypes

### Application Timing

Post-emergence - at the 1 to 4-leaf stage of glyphosate tolerant corn (i.e., varieties with the Roundup Ready® gene).

### Warning

Corn varieties which are not designated as glyphosate tolerant will be damaged or destroyed by this treatment. Consult the glyphosate label for further recommendations, precautions and restrictions.

### Application Rate

Timing	PROWL H <sub>2</sub> O Herbicide	glyphosate*
Post-emergence	2.2 L/ha	2.5 L/ha of glyphosate (360 g ae/L equivalent)

\* **PROWL H<sub>2</sub>O** herbicide is compatible with all liquid glyphosate formulations registered for use as a post-emergence treatment to glyphosate tolerant corn in which glyphosate is present as an isopropylamine salt, di-ammonium salt or potassium salt.

## J. PROWL H<sub>2</sub>O Herbicide + MARKSMAN Herbicide + Glyphosate

The addition of **MARKSMAN** herbicide to the above tank mix of **PROWL H<sub>2</sub>O** herbicide + glyphosate (see section I) will provide improved residual control of broadleaf weeds and annual grasses in glyphosate tolerant corn.

Refer to the glyphosate label for weeds controlled in addition to those listed below:

### Grasses

Barnyard grass  
Crabgrass (large and smooth)  
Green foxtail

### Broadleaf Weeds

Lamb's-quarters<sup>1</sup>  
Ragweed (common)  
Redroot pigweed<sup>1</sup>  
Velvetleaf

<sup>1</sup> includes triazine-resistant biotypes

### Application Timing

Post-emergence - at the 1 to 4-leaf stage of glyphosate tolerant corn (i.e., varieties with the Roundup Ready® gene).

### Warning

Corn varieties which are not designated as glyphosate tolerant will be damaged or destroyed by this treatment. Consult the glyphosate label for further recommendations, precautions and restrictions.

### Application Rate

Timing	PROWL H <sub>2</sub> O Herbicide	MARKSMAN Herbicide	glyphosate*
Post-emergence	2.2 L/ha	2.5 L/ha	2.5 L/ha of glyphosate (360 g ae/L equivalent)

\* **PROWL H<sub>2</sub>O** herbicide and **MARKSMAN** herbicide are compatible with all liquid glyphosate formulations registered for use as a post-emergence treatment to glyphosate tolerant corn in which glyphosate is present as an isopropylamine salt, di-ammonium salt or potassium salt.

## SOYBEANS

### GENERAL INFORMATION

**PROWL H<sub>2</sub>O** herbicide applied preplant to soybeans will provide residual control of select broadleaf weeds and annual grasses (see appropriate section under APPLICATION DIRECTIONS for weeds controlled).

**PROWL H<sub>2</sub>O** herbicide can be applied to soybeans as an early preplant surface application in tank mix with glyphosate or PURSUIT herbicide and glyphosate. **PROWL H<sub>2</sub>O** herbicide may also be applied as a preplant incorporated application to soybeans up to 45 days before planting in tank mix with PURSUIT herbicide.

**PROWL H<sub>2</sub>O** herbicide controls certain annual grass and broadleaf weeds as they germinate, but will not control established weeds. Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

Read and follow the label of tank mix partner products regarding specific precautions, restrictions and application information.

### PLANT BACK AND FOLLOW CROP RESTRICTIONS FOR SOYBEANS

For **PROWL H<sub>2</sub>O** herbicide tank mixtures, follow the cropping restrictions for the tank mix partner.

The following rotational crops may be planted the season following **PROWL H<sub>2</sub>O** herbicide use in soybeans:

- Field corn
- Soybeans
- White and kidney beans

Fall seeded crops (winter wheat, winter barley, winter rapeseed) should not be planted on land that was treated with **PROWL H<sub>2</sub>O** herbicide the previous spring.

There is insufficient information to clearly define what additional rotational crops can be planted the season following a **PROWL H<sub>2</sub>O** herbicide application. Conduct a field bioassay (a test strip grown to maturity) the year before growing any other crop.

In the case of a crop failure, land treated with **PROWL H<sub>2</sub>O** herbicide can be reseeded with soybeans or corn, provided seeding depth is below the retilled layer. Rework the soil no deeper than the treated zone. Do not apply a second treatment of **PROWL H<sub>2</sub>O** herbicide. In case of a crop failure, land treated with **PROWL H<sub>2</sub>O** herbicide plus PURSUIT herbicide can be reseeded only with soybeans, provided seeding depth is below the retilled layer. Rework the soil no deeper than the treated zone. Do not apply a second treatment of **PROWL H<sub>2</sub>O** herbicide tank mix.

## RESTRICTIONS AND LIMITATIONS

DO NOT apply **PROWL H<sub>2</sub>O** herbicide more than once during a season.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide more than one year in sequence.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide after planting soybeans as crop injury may occur.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide on coarse textured soils or soils with less than 3% organic matter.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide to soybeans within 100 days of harvest.

DO NOT graze soybeans treated with a tank mix of **PROWL H<sub>2</sub>O** herbicide plus PURSUIT herbicide or cut for hay; sufficient data are not available to support such use.

DO NOT apply PURSUIT herbicide as a preplant incorporated application more than one year in sequence. Allow at least 24 months between pre-plant incorporated applications.

Refer to the tank mix partner label(s) for further precautions, restrictions and limitations. Always use in accordance with the more restrictive label restrictions and precautions.

## APPLICATION DIRECTIONS

### A. PROWL H<sub>2</sub>O Herbicide + Glyphosate

For burndown and early season residual control of key grass and broadleaf weeds in soybeans, **PROWL H<sub>2</sub>O** herbicide may be tank mixed at a rate of 2.2 L/ha with glyphosate and applied as an early preplant surface application. Consult the glyphosate label for use rates and weeds controlled by glyphosate, as well as for further recommendations, precautions and restrictions. **PROWL H<sub>2</sub>O** herbicide is compatible with all liquid glyphosate formulations registered for use as a preplant treatment prior to soybeans in which glyphosate is present as an isopropylamine salt, potassium salt or diammonium salt.

This treatment will only provide early-season weed control and should be used in a program where a later application of a herbicide is anticipated.

Uniformly apply with properly calibrated ground equipment using a minimum of 200 L water per hectare. To reduce the potential for crop injury, this tank mix is to be applied prior to planting soybeans in no-till or reduced tillage situations. Soybeans should be planted at least 5 cm deep.

Adequate soil moisture is required for optimum activity. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 5 cm is normally adequate.

**PROWL H<sub>2</sub>O** herbicide will provide early season residual control of the following grass and broadleaf weeds. Consult the glyphosate label for weeds controlled by glyphosate, as well as

for further recommendations, precautions and restrictions. Glyphosate susceptible weeds must be emerged at time of application.

**Grasses**

Barnyard grass  
Crabgrass (large and smooth)  
Green foxtail  
Yellow foxtail

**Broadleaf Weeds**

Lamb's-quarters<sup>1</sup> (suppression only)  
Ragweed (common)  
Redroot pigweed<sup>1</sup>

<sup>1</sup> includes triazine-resistant biotypes

**B. PROWL H<sub>2</sub>O Herbicide + PURSUIT herbicide**

For control of selected annual weeds in soybeans, **PROWL H<sub>2</sub>O** herbicide may be tank mixed at a rate of 2.2 L/ha with PURSUIT herbicide at a rate of 312 mL/ha and applied as a preplant incorporated application to soybeans up to 45 days before planting.

A tank mix of **PROWL H<sub>2</sub>O** herbicide plus PURSUIT herbicide controls weeds by uptake by weed roots and translocation to the growing points where it stops weed growth. Adequate soil moisture is required for optimum activity. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 5 cm is normally adequate. If adequate moisture is not received, then cultivation is recommended to control escaped weeds. When adequate moisture is received after dry conditions, a tank mix of **PROWL H<sub>2</sub>O** herbicide plus Pursuit herbicide will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil. Weeds which continue to grow beyond the 2 true leaf stage may be escapes and should be controlled by tillage or application of a post-emergence herbicide.

Uniformly apply with properly calibrated ground equipment using 100 to 400 litres of water per hectare. This tank mix must be soil applied and incorporated into the soil prior to planting. Soybeans should be planted at least 5 cm deep.

This tank mix may be applied following land preparation and should be thoroughly incorporated to a depth of 5 cm. Incorporate prior to soybean planting. Mechanical incorporation can be achieved by the following:

- a) Disk harrow set to cut 7 - 10 cm deep and operated at 6 to 10 kph with the second pass at an angle to the first.
- b) PTO-driven equipment (tillers, cultivators, hoes) set to cut deep and operated one time at 6 kph or less.
- c) Field cultivator with 3 to 4 rows of sweeps (Do not use chisel points), spaced at intervals of 10 cm or less and staggered so that no soil is left unturned, set to cut 7 cm deep and operated two times at more than 7 kph with the second pass made at an angle to the first.

If soybeans are planted on beds, apply and incorporate after bed formation using PTO-driven equipment or a rolling cultivator.

This tank mixture applied as directed will control the following grass and broadleaf weeds.



**Grasses**

Barnyard grass  
 Green foxtail  
 Yellow foxtail

**Broadleaf Weeds**

Ragweed, common <sup>1</sup>  
 Lamb's-quarters, common <sup>2</sup>  
 Redroot pigweed <sup>2</sup>  
 Velvetleaf

<sup>1</sup> provides partial control and reduces competition from this weed

<sup>2</sup> includes triazine-resistant biotypes

**C. PROWL H<sub>2</sub>O Herbicide + PURSUIT herbicide + Glyphosate**

For burndown and residual control of key grass and broadleaf weeds in no-till and reduced-till soybeans, **PROWL H<sub>2</sub>O** herbicide may be tank mixed at a rate of 2.2 L/ha with PURSUIT herbicide at a rate of 312 mL/ha and with glyphosate applied as an early preplant surface application. Refer to the glyphosate product label for specific use rate and weeds controlled

A tank mix of **PROWL H<sub>2</sub>O** herbicide plus PURSUIT herbicide controls weeds by uptake by weed roots and translocation to the growing points where it stops weed growth. Adequate soil moisture is required for optimum activity. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 5 cm is normally adequate. If adequate moisture is not received, then cultivation is recommended to control escaped weeds. When adequate moisture is received after dry conditions, a tank mix of **PROWL H<sub>2</sub>O** herbicide plus Pursuit herbicide will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil. Weeds which continue to grow beyond the 2 true leaf stage may be escapes and should be controlled by tillage or application of a post-emergence herbicide.

Uniformly apply with properly calibrated ground equipment using 100 to 200 litres of water per hectare. To reduce the potential for crop injury, this tank mix is to be applied prior to planting soybeans in no-till or reduced tillage situations. Soybeans should be planted at least 5 cm deep.

Consult the glyphosate label for use rates and weeds controlled by glyphosate, as well as for further recommendations, precautions and restrictions. **PROWL H<sub>2</sub>O** herbicide is compatible with all liquid glyphosate formulations registered for use as a preplant treatment prior to soybeans in which glyphosate is present as an isopropylamine salt, potassium salt or diammonium salt

This tank mixture applied as directed will control the following grass and broadleaf weed species. Consult the glyphosate label for weeds controlled by glyphosate in addition to those listed below. Glyphosate susceptible weeds must be emerged at time of application.

**Grasses**

Barnyard grass  
 Green foxtail  
 Yellow foxtail

**Broadleaf Weeds**

Ragweed, common <sup>1</sup>  
 Lamb's-quarters, common <sup>2</sup>  
 Redroot pigweed <sup>2</sup>  
 Velvetleaf

<sup>1</sup> provides partial control and reduces competition from this weed

<sup>2</sup> includes triazine-resistant biotypes

## PEARL MILLET (FORAGE, GRAIN AND SWEET STEM)

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:** The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than BASF Canada and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. BASF Canada itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crop listed below. Accordingly, the Buyer and User assume all risks related to performance or crop tolerance arising and agree to hold BASF Canada harmless from any claims based on efficacy phytotoxicity in connection with the uses described below.

For control of selected annual weeds in pearl millet (forage, grain and sweet stem), **PROWL H<sub>2</sub>O** herbicide may be applied as a pre- emergent application (after planting, but before weeds and crop emerge) at a rate of 3.7 L/ha. Plant pearl millet at least 4 cm deep to ensure good seed coverage. Uniformly apply with properly calibrated ground equipment using a minimum of 200 L water per hectare.

**PROWL H<sub>2</sub>O** herbicide controls certain annual grass and broadleaf weeds as they germinate, but will not control established weeds.

Adequate soil moisture is required for optimum activity. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. If adequate moisture is not received, then cultivation is recommended to control escaped weeds.

Unusually cold, excessively wet or hot and dry conditions that delay germination or extend germination over a long period of time may reduce weed control.

**PROWL H<sub>2</sub>O** herbicide applied as directed will control the following grass and broadleaf weed species:

### Grasses

Barnyard grass

Crabgrass (large and smooth)

Fall panicum

Green foxtail

### Broadleaf Weeds

Lamb's-quarters<sup>1</sup>

Redroot pigweed<sup>1</sup> (suppression only)

<sup>1</sup> includes triazine-resistant biotypes

## PLANT BACK AND FOLLOW CROP RESTRICTIONS FOR PEARL MILLET

In the case of a crop failure, land treated with **PROWL H<sub>2</sub>O** herbicide can be reseeded with field corn, provided seeding depth is below the retilled layer. Crop injury will result if seed is planted in the retilled layer of soil which is treated with **PROWL H<sub>2</sub>O** herbicide. **DO NOT** plant corn

where land preparation prior to reseeding has incorporated the **PROWL H<sub>2</sub>O** herbicide into the seed germination zone.

The following rotational crops may be planted the season following **PROWL H<sub>2</sub>O** herbicide use in pearl millet:

Field corn

Soybeans

Pearl millet

Fall seeded crops (winter wheat, winter barley, winter rapeseed) should not be planted on land that was treated with **PROWL H<sub>2</sub>O** herbicide the previous spring.

### **RESTRICTIONS AND LIMITATIONS**

**For use in Eastern Canada only.**

**DO NOT** apply **PROWL H<sub>2</sub>O** herbicide more than once during a season.

**DO NOT** apply **PROWL H<sub>2</sub>O** herbicide more than one year in sequence.

**DO NOT** apply **PROWL H<sub>2</sub>O** herbicide as a preplant or preplant incorporated application to pearl millet as crop injury may occur.

**DO NOT** graze or harvest millet for forage within 55 days application.

**DO NOT** harvest millet for hay within 75 days of application.

**DO NOT** harvest millet grain and straw within 120 days of application.

Crop Injury Disclaimer: Prowl H<sub>2</sub>O herbicide use may result in crop injury, loss or damage to certain crops under a number of conditions, including but not limited to agronomic, cultural, mechanical, and environmental. Numerous risks of loss or damage to certain crops may be associated with the use of Prowl H<sub>2</sub>O herbicide even when directions for use are followed completely. The user or grower should take all such risks into consideration before deciding to apply the product. BASF Canada recommends testing on a small portion of the target crop to determine if damage is likely to occur. Each grower who is considering the product for such use should test Prowl H<sub>2</sub>O herbicide to determine its suitability. A grower should use Prowl H<sub>2</sub>O herbicide only to the extent, that in his sole opinion, the benefit of Prowl H<sub>2</sub>O herbicide use outweighs the potential injury to the grower's crop.

## ADZUKI, SNAP AND LIMA BEANS

For control of selected annual weeds in adzuki, snap and lima beans, **PROWL H<sub>2</sub>O** herbicide may be applied as a preplant incorporated application at a rate of 2.37 L/ha. **PROWL H<sub>2</sub>O** herbicide controls certain annual grass and broadleaf weeds as they germinate, but will not control established weeds.

Uniformly apply with properly calibrated ground equipment using a minimum of 200 L water per hectare. **PROWL H<sub>2</sub>O** herbicide must be soil applied and incorporated into the soil prior to planting.

**DO NOT** apply after planting adzuki, snap and lima beans as crop injury may occur.

Adequate soil moisture is required for optimum activity. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. If adequate moisture is not received, then cultivation is recommended to control escaped weeds.

Unusually cold, excessively wet or hot and dry conditions that delay germination or extend germination over a long period of time may reduce weed control.

**PROWL H<sub>2</sub>O** herbicide applied as directed will control the following grass and broadleaf weed species:

### Grasses

Green foxtail

### Broadleaf Weeds

Lamb's-quarters<sup>1</sup> (suppression only)  
Redroot pigweed<sup>1</sup>

<sup>1</sup> includes triazine-resistant biotypes

## PLANT BACK AND FOLLOW CROP RESTRICTIONS FOR ADZUKI, SNAP AND LIMA BEANS

The following rotational crops may be planted the season following **PROWL H<sub>2</sub>O** herbicide use in adzuki beans:

Field corn  
Soybeans

Fall seeded crops (winter wheat, winter barley, winter rapeseed) should not be planted on land that was treated with **PROWL H<sub>2</sub>O** herbicide the previous spring.

In the case of a crop failure, land treated with **PROWL H<sub>2</sub>O** herbicide can be reseeded with soybeans or corn, provided seeding depth is below the retilled layer. Rework the soil no deeper than the treated zone. Do not apply a second treatment of **PROWL H<sub>2</sub>O** herbicide.

## **RESTRICTIONS AND LIMITATIONS**

For use on adzuki beans grown in Eastern Canada only.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide more than once during a season.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide more than one year in sequence.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide after planting adzuki, snap or lima beans as crop injury may occur.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide to adzuki beans within 90 days of harvest.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide to snap and lima beans within 50 and 80 days of harvest, respectively.

Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

## WHITE AND KIDNEY BEANS

For control of selected annual weeds in white and kidney beans, **PROWL H<sub>2</sub>O** herbicide may be applied as a preplant incorporated application at a rate of 2.37 L/ha. **PROWL H<sub>2</sub>O** herbicide controls certain annual grass and broadleaf weeds as they germinate, but will not control established weeds.

Uniformly apply with properly calibrated ground equipment using a minimum of 200 L water per hectare. **PROWL H<sub>2</sub>O** herbicide must be soil applied and incorporated into the soil prior to planting.

**DO NOT** apply after planting white and kidney as crop injury may occur.

Adequate soil moisture is required for optimum activity. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. If adequate moisture is not received, then cultivation is recommended to control escaped weeds.

Unusually cold, excessively wet or hot and dry conditions that delay germination or extend germination over a long period of time may reduce weed control.

**PROWL H<sub>2</sub>O** herbicide applied as directed will control the following grass and broadleaf weed species:

### Grasses

Barnyard grass  
Green foxtail

### Broadleaf Weeds

Lamb's-quarters<sup>1</sup> (suppression only)  
Redroot pigweed<sup>1</sup>

<sup>1</sup> includes triazine-resistant biotypes

## PLANT BACK AND FOLLOW CROP RESTRICTIONS FOR WHITE AND KIDNEY BEANS

The following rotational crops may be planted the season following **PROWL H<sub>2</sub>O** herbicide use in white and kidney beans:

Field corn  
Soybeans  
White and kidney beans

Fall seeded crops (winter wheat, winter barley, winter rapeseed) should not be planted on land that was treated with **PROWL H<sub>2</sub>O** herbicide the previous spring.

There is insufficient information to clearly define what additional rotational crops can be planted the season following a **PROWL H<sub>2</sub>O** herbicide application. Conduct a field bioassay (a test strip grown to maturity) the year before growing any other crop.

In the case of a crop failure, land treated with **PROWL H<sub>2</sub>O** herbicide can be reseeded with soybeans, white or kidney beans. Rework the soil no deeper than the treated zone. Do not apply a second treatment of **PROWL H<sub>2</sub>O** herbicide.

### **RESTRICTIONS AND LIMITATIONS**

DO NOT apply **PROWL H<sub>2</sub>O** herbicide more than once during a season.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide more than one year in sequence.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide after planting white or kidney beans as crop injury may occur.

DO NOT apply **PROWL H<sub>2</sub>O** herbicide to white or kidney beans within 90 days of harvest.

Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

## GREEN (BUNCHING) ONIONS AND TRANSPLANTED LEEKS

**Prowl H<sub>2</sub>O** herbicide will control key annual grasses and broadleaf weeds in green (bunching) onions and transplanted leeks grown on mineral soils. Uniformly apply the recommended rate of **Prowl H<sub>2</sub>O** herbicide as a single application at the 2 to 3 true leaf stage of green onions or after transplanting leeks and before weed emergence. **PROWL H<sub>2</sub>O** herbicide will not control emerged weeds. Destroy existing weeds before applying **PROWL H<sub>2</sub>O** herbicide. **PROWL H<sub>2</sub>O** herbicide treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within seven (7) days after application.

Uniformly apply with properly calibrated ground equipment using a minimum of 200 L water per hectare. Do not apply **PROWL H<sub>2</sub>O** herbicide in liquid fertilizers.

Do not apply within 30 days of harvest.

### Application Timing

#### Transplanted Leeks

After transplanting of leeks and before weed emergence

#### Green (Bunching) Onions

At the 2 to 3 true leaf stage after the crop has fully emerged and before weed emergence. Application made prior to full emergence may result in significant crop injury.

### Application Rate

Soil Type	PROWL H <sub>2</sub> O Herbicide
Mineral	2.37 L/ha

**PROWL H<sub>2</sub>O** herbicide applied as directed will control the following weeds:

#### Grasses

Green foxtail

#### Broadleaf Weeds

Lamb's-quarters<sup>1</sup> (suppression only)  
Redroot pigweed<sup>1</sup>

<sup>1</sup> includes triazine-resistant biotypes



**DRY BULB ONIONS ON MUCK SOIL  
(direct seed only)**

**PROWL H<sub>2</sub>O** herbicide can be applied at the loop and 2-true-leaf stage of crop development. Uniformly apply the recommended rate of **PROWL H<sub>2</sub>O** herbicide in 250 or more litres of water per hectare by ground equipment. **PROWL H<sub>2</sub>O** herbicide treatments will NOT control emerged weeds. Destroy existing weeds before applying **PROWL H<sub>2</sub>O** herbicide. **PROWL H<sub>2</sub>O** herbicide treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within seven (7) days after application.

**PROWL H<sub>2</sub>O** herbicide applied as directed will control the following grass and broadleaf weeds:

Barnyard grass  
Crabgrass (large and smooth)  
Green foxtail  
Yellow foxtail  
Common chickweed  
Lamb's-quarters<sup>1</sup>  
Pigweed<sup>1</sup>

<sup>1</sup> includes triazine-resistant biotypes

### Application Rate

Timing	PROWL H <sub>2</sub> O Herbicide
Loop stage of onion growth	6.6 L/ha
2-true-leaf stage of onion growth	6.6 L/ha

Application at both growth stages is required for season-long control, however, note the precautions in the Follow Crop Rotation section. Sequential applications of other herbicides may be required for broad spectrum weed control. Consult the labels of the other herbicides for weeds controlled and proper time for application.

### Precautions

1. On muck soils, DO NOT use **PROWL H<sub>2</sub>O** herbicide on green (bunching) onions and on onions grown from sets.
2. Livestock cannot be fed pendimethalin treated onions.

### CULTURAL PRACTICES FOLLOWING APPLICATION

Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. When cultivating for any reason, it should be shallow.

In the case of a crop failure, land treated with **PROWL H<sub>2</sub>O** herbicide can be reseeded only with the original crop (onions).

### **FOLLOW CROP RESTRICTIONS FOR ONIONS**

Pendimethalin, the active ingredient in **PROWL H<sub>2</sub>O** herbicide, has the potential to carry over and harm rotational crops following onions in muck soils.

1. ONLY onions may be planted in the year of **PROWL H<sub>2</sub>O** herbicide application.
2. Carrots and direct seeded lettuce may be planted into soil which was treated with **PROWL H<sub>2</sub>O** herbicide the previous year.

There is insufficient information to clearly define what additional rotational crops can be planted or what recropping intervals are appropriate. Recrop injury may be reduced by 1) using only one application per season (i.e., loop stage) and 2) ploughing treated land to a depth of 30 cm prior to planting other crops.

Do not plant any succeeding crops other than carrots or direct seeded lettuce within 12 months of the last **PROWL H<sub>2</sub>O** herbicide application.

#### **DRY BULB ONIONS ON MINERAL SOILS IN EASTERN CANADA**

<b>Weeds</b>	<b>PROWL H<sub>2</sub>O Rate</b>	<b>Directions</b>
Labeled annual grasses and broadleaf weeds	2.2 - 3.3 L/ha	Maximum of two applications per year. Apply as a foliar spray. Ground application only. Apply in 250 L water/ha. Apply at 2-6 true-leaf stage.

#### **DRY BULB ONIONS ON MINERAL SOILS IN WESTERN CANADA**

<b>Weeds</b>	<b>PROWL H<sub>2</sub>O Rate</b>	<b>Directions</b>
Green foxtail, redroot pigweed, lamb's-quarters	2.42 L/ha	One application per year. Ground application only. Post-emergence application. Apply at the loop to the 2 true-leaf stage of onions. Apply in 250 L water/ha.

#### **NEWLY PLANTED AND ESTABLISHED FRUIT TREES IN BRITISH COLUMBIA ONLY (apple, peach, nectarine, cherry and apricot)**

<b>Weeds</b>	<b>PROWL H<sub>2</sub>O Rate</b>	<b>Directions</b>
Annual grasses and labeled broadleaf weeds	3.7 L/ha	One application per year. Ground application. Boom sprayer. Apply pre-emergent to weed growth. <b>For use in British Columbia only.</b>

## COMMERCIAL ORNAMENTAL PRODUCTION AND CONIFERS FOR FIELD PRODUCTION

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than BASF Canada and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. BASF Canada itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance or crop tolerance arising and agree to hold BASF Canada harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

**Prowl H<sub>2</sub>O** Herbicide will control annual grasses and certain broadleaf weeds in and around field, liner and container outdoor ornamentals and conifers for field production, including Christmas trees.

Uniformly apply the recommended rate of **Prowl H<sub>2</sub>O** Herbicide with properly calibrated ground equipment before weed emergence. **PROWL H<sub>2</sub>O** herbicide will not control emerged weeds. Destroy existing weeds before applying **PROWL H<sub>2</sub>O** herbicide. **PROWL H<sub>2</sub>O** herbicide treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received. If **PROWL H<sub>2</sub>O** is not activated by rainfall or irrigation within 7 days, erratic weed control may result.

Outdoor ornamentals and conifers may vary in their tolerance to herbicides, including **Prowl H<sub>2</sub>O** herbicide. The tolerance of the listed ornamental species below has been found to be acceptable when **Prowl H<sub>2</sub>O** herbicide is applied as directed. Since not every variety or strain of outdoor ornamental species has been tested for tolerance to **Prowl H<sub>2</sub>O** herbicide, first use of **Prowl H<sub>2</sub>O** herbicide should be limited to a small area of each species to confirm tolerance prior to adoption as a general field practice. Additionally, consult your plant or seed supplier for information on the tolerance of specific species of outdoor ornamentals to **Prowl H<sub>2</sub>O** herbicide.

Plant only those plant species for which tolerance has been confirmed into soil treated the previous season with **Prowl H<sub>2</sub>O** herbicide or injury may occur.

### APPLICATION DIRECTIONS

Uniformly apply with properly calibrated ground equipment using a minimum of 100 L water per hectare.

**Application Rate:** 3.7 L/ha **PROWL H<sub>2</sub>O** Herbicide

### Established Container or Field Grown Ornamentals and Conifers for field production, including Christmas trees

Apply as a directed spray. **DO NOT** make over-the-top applications. **DO NOT** apply during bud swell, bud break or at time of first flush of new growth. If newly budded or grafted rootstock, make an application using a shielded sprayer. Care must be taken to ensure there are no cracks in the soil where **PROWL H<sub>2</sub>O** Herbicide could come in contact with the roots.

**Newly Transplanted Container or Field Grown Ornamentals and Conifers for field production, including Christmas trees**

Apply as a directed spray. **DO NOT** make over-the-top applications. **DO NOT** apply until transplants have been watered and soil has been thoroughly packed and settled around transplants. Care must be taken to ensure there are no cracks in the soil where **PROWL H<sub>2</sub>O** Herbicide could come in contact with the roots. For container grown ornamentals, delay first application of the product to bareroot liners for two weeks after transplanting. **DO NOT** apply during bud swell, bud break or at time of first flush of new growth. Direct sprays away from graphed or budded tissue on transplants at all times.

**Weeds Controlled**

**PROWL H<sub>2</sub>O** herbicide applied pre-emergence as directed will control the following weeds:

**Grasses**

Barnyard grass  
Crabgrass (large and smooth)  
Fall panicum  
Green foxtail

**Broadleaf Weeds**

Lamb's-quarters<sup>1</sup>  
Redroot pigweed<sup>1</sup> (suppression only)

<sup>1</sup> includes triazine-resistant biotypes

**TOLERANCE OF THE ORNAMENTAL SPECIES LISTED BELOW HAS BEEN FOUND TO BE ACCEPTABLE WHEN PROWL H<sub>2</sub>O HERBICIDE IS APPLIED AS DIRECTED.**

<b>Common name</b>	<b>Scientific name</b>
Fraser fir	<i>Abies fraseri</i> .
Common yarrow	<i>Achillea millefolium</i>
Columbine	<i>Aquilegia</i> sp. "McKana"
River birch	<i>Betula nigra</i>
Shasta daisy	<i>Chrysanthemum maximum</i>
Lanceleaf tickseed	<i>Coreopsis lanceolata</i>
Leyland cypress	<i>Cupressocyparis leylandii</i>
Foxglove	<i>Digitalis purpurea</i>
Purple coneflower	<i>Echinacea purpurea</i>
Forsythia	<i>Forsythia intermedia</i>
Green ash	<i>Fraxinus pennsylvanica</i>
Blanket flower	<i>Gaillardia aristata</i>
	<i>Gaillardia pulchella</i>
Avens	<i>Geum quellyon</i>
	<i>Geum chiloense</i>
Baby's breath	<i>Gypsophila paniculata</i>
Daylily	<i>Hemerocallis</i> spp.
Andorra juniper	<i>Juniperus horizontalis</i>
Crepe myrtle	<i>Lagerstroemia indica</i>
Statice	<i>Limonium latifolium</i>
Peony	<i>Paeonia</i> sp.
Loblolly pine	<i>Pinus taeda</i>
Water oaks	<i>Quercus nigra</i>

Blood stonecrop	<i>Sedum spurium</i>
Stokes aster	<i>Stokesia laevis</i>
Spreading yew	<i>Taxus cuspidate</i>
Globe arborvitae	<i>Thuja occidentalis</i>
Canadian hemlock	<i>Tsuga Canadensis</i>

**DO NOT APPLY PROWL H<sub>2</sub>O HERBICIDE ONTO THE ORNAMENTAL SPECIES LISTED BELOW AS UNACCEPTABLE INJURY OR PLANT DEATH MAY OCCUR**

<b>Common name</b>	<b>Scientific name</b>
Japanese holly fern	<i>Cyrtomium falcatum</i>
Golden balsam	<i>Impatiens sp.</i>
Petunia	<i>Petunia hybrida</i>
False dragonhead	<i>Physostegia virginiana</i>
White pine	<i>Pinus strobus</i>
Black-eyed Susan	<i>Rudbeckia hirta</i>
Lamb's ear	<i>Stachys byzantina</i>

### **RESTRICTIONS AND LIMITATIONS**

**DO NOT** apply **PROWL H<sub>2</sub>O** herbicide to newly-transplanted ornamentals and conifers until plants have been watered and soil has been thoroughly packed and settled around roots.

**DO NOT** make over-the-top applications.

**DO NOT** treat plants grown for food or feed. **DO NOT** use treated plants for food or feed.

Unusually cold, excessively wet, or hot and dry conditions that delay weed germination or extend weed germination over a long period of time can reduce weed control.

Applied according to label directions and under normal growing conditions, **PROWL H<sub>2</sub>O** herbicide will not cause plant injury. Over-application can result in plant injury or soil residues. Uneven application can decrease weed control or cause plant injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants, and increase the possibility of plant damage from **PROWL H<sub>2</sub>O** herbicide.

Unintentional consequences such as crop injury may result because of certain environmental or growing conditions, manner of use or application. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage prior to full-scale operation

Avoid unintentional contact of spray solution with stone, wood, or other porous surfaces as staining may occur. Rinse surfaces immediately using a heavy spray of water to avoid staining.

## CARROTS

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:** The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than BASF Canada and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. BASF Canada itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance or crop tolerance arising and agree to hold BASF Canada harmless from any claims based on efficacy phytotoxicity in connection with the uses described below.

Crop	Weeds	Application rate (L/ha)
Carrots in mineral soil	Barnyard grass Crabgrass (large and smooth) Fall panicum Green foxtail Lamb's-quarters <sup>1</sup> Redroot pigweed <sup>1</sup> (suppression only) <sup>1</sup> includes triazine-resistant biotypes	3.7 L/ha
Carrots in muck soil	Barnyard grass Crabgrass (large and smooth) Green foxtail Yellow foxtail Common chickweed Lamb's-quarters <sup>1</sup> Pigweed <sup>1</sup> <sup>1</sup> includes triazine-resistant biotypes	6.6 L/ha

Prowl H2O Herbicide will control labeled weeds listed above in carrots grown on muck and mineral soils. Uniformly apply the recommended rate of Prowl H2O Herbicide as a single broadcast spray to the soil surface as a post-plant treatment within 2 days after planting and prior to the emergence of the crop and weeds. One application per year. Prowl H2O Herbicide will not control emerged weeds. Destroy existing weeds before applying Prowl H2O Herbicide. Prowl H2O Herbicide treatments are most effective in controlling weeds when adequate rainfall or overhead irrigation is received within seven (7) days after application.

Uniformly apply with properly calibrated ground equipment using a minimum of 200 L water per hectare. Do not apply Prowl H2O Herbicide in liquid fertilizers.

Do not apply as a broadcast spray over top of carrots or crop injury may result.

Do not apply to carrots grown for seed production.

Do not feed forage or graze livestock in treated fields.

Do not apply within 90 days of harvest.

DO NOT apply PROWL H2O herbicide more than once during a season.

DO NOT apply PROWL H2O herbicide more than once in two consecutive years.

### **ROTATIONAL CROPS AND PLANT BACK RESTRICTIONS FOR CARROTS GROWN ON MINERAL SOIL**

The following rotational crops may be planted the year following PROWL H2O herbicide use in carrots grown on mineral soil:

Field corn  
Soybeans  
Dry bulb onions

Fall seeded crops (winter wheat, winter barley, winter rapeseed) should not be planted on land that was treated with PROWL H2O herbicide the previous spring.

Conduct a field bioassay (a test strip to mature) the year before growing any other crop.

In the case of a crop failure, land treated with PROWL H2O herbicide can be reseeded with corn provided seeding depth is below the retilled layer. Crop injury will result if seed is planted in the retilled layer of soil which is treated with PROWL H2O herbicide. DO NOT plant corn where land preparation prior to reseeding has incorporated the PROWL H2O herbicide into the seed germination zone.

### **CULTURAL PRACTICES FOLLOWING APPLICATION TO CARROTS GROWN ON MUCK SOIL**

Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. When cultivating for any reason, it should be shallow.

In the case of a crop failure, land treated with PROWL H2O herbicide can be reseeded with dry bulb onions.

### **FOLLOW CROP RESTRICTIONS FOR CARROTS GROWN ON MUCK SOIL**

Pendimethalin, the active ingredient in PROWL H2O herbicide, has the potential to carry over and harm rotational crops following carrots in muck soils.

1. ONLY dry bulb onions may be planted in the year of PROWL H2O herbicide application.
2. Carrots, direct seeded lettuce and dry bulb onions may be planted into soil which was treated with PROWL H2O herbicide the previous year.

There is insufficient information to clearly define what additional rotational crops can be planted or what recropping intervals are appropriate. Recrop injury may be reduced by ploughing treated land to a depth of 30 cm prior to planting other crops.

Do not plant any succeeding crops other than carrots or direct seeded lettuce within 12 months of the last PROWL H2O herbicide application.

Conduct a field bioassay (a test strip to mature) the year before growing any other crop.

Crop Injury Disclaimer: Prowl H<sub>2</sub>O herbicide use may result in crop injury, loss or damage to certain crops under a number of conditions, including but not limited to agronomic, cultural, mechanical, and environmental. Numerous risks of loss or damage to certain crops may be associated with the use of Prowl H<sub>2</sub>O herbicide even when directions for use are followed completely. The user or grower should take all such risks into consideration before deciding to apply the product. BASF Canada recommends testing on a small portion of the target crop to determine if damage is likely to occur. Each grower who is considering the product for such use should test Prowl H<sub>2</sub>O herbicide to determine its suitability. A grower should use Prowl H<sub>2</sub>O herbicide only to the extent, that in his sole opinion, the benefit of Prowl H<sub>2</sub>O herbicide use outweighs the potential injury to the grower's crop.

## MIXING INSTRUCTIONS

1. Fill tank one-half to three quarters full with clean water or liquid fertilizer and agitate. Prior to mixing **PROWL H<sub>2</sub>O** or **PROWL H<sub>2</sub>O** tank mixtures in liquid fertilizer, refer to appropriate label sections for recommended uses in liquid fertilizer, application instructions and compatibility determinations. **DO NOT** apply **PROWL H<sub>2</sub>O** herbicide post-emergence in liquid fertilizers. Apply post-emergence applications in water only.

2. **PROWL H<sub>2</sub>O** Herbicide Alone

When using **PROWL H<sub>2</sub>O** herbicide alone, add **PROWL H<sub>2</sub>O** to the partially filled tank while agitating and then fill the remainder of the tank with water or liquid fertilizer.

If applying with liquid fertilizer, pre-slurry PROWL H<sub>2</sub>O 1-to-1 with water prior to mixing with liquid fertilizers.

3. **PROWL H<sub>2</sub>O** Herbicide Tank Mixes

When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

Add the tank mixture ingredients in the order listed below prior to adding **PROWL H<sub>2</sub>O** herbicide:

- a) Wettable Powder, Dry Flowable or Water Dispersible Granule Formulations:  
When using water as your carrier, add the dry material to the partially filled tank while agitating. If applying with liquid fertilizer, first make a slurry of the dry material in water (1:2 ratio) before adding to liquid fertilizer in spray tank.
- b) PROWL H<sub>2</sub>O herbicide:  
Add PROWL H<sub>2</sub>O herbicide to the partially filled tank while agitating. If applying with liquid fertilizer, pre-slurry PROWL H<sub>2</sub>O 1-to-1 with water prior to mixing with liquid



fertilizers. Ensure that PROWL H<sub>2</sub>O is completely mixed prior to adding additional tank mix products to tank.

- c) LIQUID formulations:  
Add the liquid to the partially filled tank while agitating.
- d) Emulsifiable Concentrate formulations:  
Add the EC to the partially filled tank while agitating.
- e) Solution formulations, including glyphosate products:  
Add the solution to the partially filled tank while agitating. Add the glyphosate tank mix partner after any solution formulation products but prior to any surfactants.

After complete mixing, add **PROWL H<sub>2</sub>O** herbicide to the partially filled tank while agitating.

When tank mixing ELIM EP 25% DF, ELIM EP 25% DF plus BANVEL II, or ACCENT 75 DF plus BANVEL II, ensure that the tank mix is well mixed and in suspension, then add a recommended non-ionic surfactant such as CITOWETT® PLUS, AGRAL® or AG-SURF® to the tank mix.

Fill the remainder of the tank with water or liquid fertilizer while agitating.

4. MAINTAIN CONTINUOUS AGITATION WHILE ADDING HERBICIDES AND UNTIL SPRAYING IS COMPLETE. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to re-suspend the mixture before spraying is resumed.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **PROWL H<sub>2</sub>O** herbicide is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to **PROWL H<sub>2</sub>O** and other Group 3 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 **PROWL H<sub>2</sub>O** herbicide or other Group 3 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 or [www.agsolutions.ca](http://www.agsolutions.ca).

## PRECAUTIONS

1. KEEP OUT OF REACH OF CHILDREN.
2. DO NOT APPLY BY AIR.
3. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.
4. Wear long sleeved shirt, long pants, gloves and shoes plus socks when mixing, loading and during clean up and repair. Wear long sleeved shirt, long pants, and shoes plus socks during application.
5. Users should wash hands before eating, drinking, chewing gum and when using tobacco or the toilet.
6. Remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash hands (or any other skin that came into contact with the product) with soap and water and change into clean clothing.

Remove clothing/personal protective equipment immediately if pesticide comes in contact with the skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Wash contaminated clothing before reuse.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

7. Except for application to soybeans and fruit trees, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.
8. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.
9. 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.

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).

## 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

The patient should be treated symptomatically.

## ENVIRONMENTAL HAZARDS

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

## STORAGE

Do not contaminate water, food or feed by storage.

**PROWL H<sub>2</sub>O** herbicide freezes around -9°C and is stable under conditions of freezing and thawing. If this product has been stored where freezing temperatures have occurred, agitate or mix contents of container well before use.

## DISPOSAL / DECONTAMINATION

### Recyclable Containers

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.

### **Returnable Containers**

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

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### **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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GROUP

3

HERBICIDE

## **PROWL® H<sub>2</sub>O HERBICIDE**

Microencapsulated Pendimethalin in an Aqueous Carrier

MICROCAPSULE SUSPENSION

**COMMERCIAL (AGRICULTURAL)**

(NOT FOR SALE FOR USE IN PRAIRIE PROVINCES,  
EXCEPT FOR DRY BULB ONIONS ON MINERAL SOILS, GREEN ONIONS AND  
TRANSPLANTED LEEKS ON MINERAL SOILS, CARROTS AND COMMERCIAL OUTDOOR  
ORNAMENTAL PRODUCTION)

**GUARANTEE:** Pendimethalin.....455 g/L

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one,  
each at 0.0025%, as preservatives

**REGISTRATION NO.** 29542

**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:** 5 L – 1000 L, BULK

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

PROWL is a registered trade-mark of American Cyanamid, used with permission by  
BASF Canada Inc.

## PRECAUTIONS

1. KEEP OUT OF REACH OF CHILDREN.
2. DO NOT APPLY BY AIR.
3. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.
4. Wear long sleeved shirt, long pants, gloves and shoes plus socks when mixing, loading and during clean up and repair. Wear long sleeved shirt, long pants, and shoes plus socks during application.
5. Users should wash hands before eating, drinking, chewing gum and when using tobacco or the toilet.
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