

2022-0975  
2022-03-04

GROUP	3	HERBICIDE
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PROWL® 60 WDG HERBICIDE

WETTABLE GRANULES

AGRICULTURAL

(FOR SALE FOR USE IN ALL REGIONS EXCEPT THE PRAIRIE PROVINCES)

GUARANTEE: pendimethalin.....60 %

REGISTRATION NO. 25137

PEST CONTROL PRODUCTS ACT

WARNING - EYE IRRITANT



CAUTION

POISON

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.

NET CONTENTS: 0.5 - 25 kg

BASF Canada Inc.  
5025 Creekbank Road  
Building A, 2<sup>nd</sup> Floor  
Mississauga, Ontario L4W 0B6

1-877-371-2273

PROWL® is a registered trademark of BASF.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed, inhaled or absorbed through the skin.

Warning - Eye irritant.

Do not get in eyes or on clothing. Wear goggles or face shield during mixing or loading.

Avoid contact with skin. Wear chemical resistant gloves (e.g., nitrile) and long sleeved coveralls during mixing, loading, clean up, repair and application.

Avoid breathing spray mist. Use with adequate ventilation.

Users should wash hands and skin thoroughly with soap and water before eating, drinking, chewing gum and when using tobacco or the toilet.

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.

Remove personal protective equipment and contaminated clothing 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. Store and wash contaminated clothing (separately from household laundry) before reuse.

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

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.

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**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

## **ENVIRONMENTAL HAZARDS**

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

## **STORAGE**

DO NOT STORE ABOVE 50°C.

Do not store near food or feed products.

## **DISPOSAL**

1. Thoroughly empty contents of bag into the application device.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **NOTICE TO USER**

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

## **GENERAL INFORMATION**

PROWL 60 WDG will control certain annual grass and annual broadleaf weeds and can be applied on field corn alone as a pre-emergence treatment or in tank mixture with either Atrazine 90 WP or 90 WG, BANVEL® II Herbicide or MARKSMAN® Herbicide at pre-emergence timings or with either Atrazine 90 WP or 90 WG, BANVEL II Herbicide or MARKSMAN Herbicide at post-emergence timings.

The seedbed should be firm and free of clods and trash. Plant corn AT LEAST 4 cm deep to ensure good seed coverage. The application of PROWL 60 WDG is restricted to corn grown only in medium and fine texture soils with more than 3% organic matter. These soils include all soils except for sand, loamy sand and sandy loam soil textures.

PROWL 60 WDG 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.

### **DO NOT INCORPORATE**

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

## **DIRECTIONS FOR USE**

### **SPECIAL PRECAUTIONS**

PROWL 60 WDG herbicide controls certain annual grass and broadleaf weeds as they germinate, but will not control established weeds. Destroy existing weeds before applying PROWL 60 WDG (except as recommended in specific post-emergence combination treatments). 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 60 WDG 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. Avoid application under these conditions, as crop yields can be reduced.

DO NOT graze the treated immature corn or cut for silage prior to 100 days after PROWL 60 WDG application.

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

DO NOT apply PROWL 60 WDG to corn grown on peat, muck or coarse textured soils or soils with less than 3% organic matter.

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DO NOT apply PROWL 60 WDG more than once per season.

DO NOT apply PROWL 60 WDG herbicide more than one year in sequence. DO NOT apply VALOR herbicide in the year following application of PROWL herbicide. DO NOT apply PROWL 60 WDG herbicide in the year following the application of VALOR herbicide.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

DO NOT apply this product directly to freshwater habitats and wildlife habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, shelterbelts, woodlots, vegetation surrounding water bodies and field edges, reservoirs and wetlands), or to estuarine/marine habitats.

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

### **SOIL CLASSIFICATION**

Soil textures are classified as Coarse, Medium or 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 |

### **BROADLEAF WEED AND GRASS CONTROL USE INSTRUCTIONS**

PROWL 60 WDG applied alone at 2.8 kg/ha pre-emergence (after planting, before weeds or crop emerge) will control:

- |               |                                     |
|---------------|-------------------------------------|
| Grasses:      | Broadleaf weeds:                    |
| Green foxtail | Lamb's-quarters*                    |
| Fall panicum  | Redroot pigweed* (suppression only) |
| Banyard grass |                                     |

\*Also includes triazine-resistant biotypes.

Uniformly apply PROWL 60 WDG in 220 litres or more water per hectare by ground equipment.

### **TANKMIXES**

For fields which contain grass or broadleaf weeds in addition to those listed under PROWL 60 WDG alone, tank-mixing may be required to provide broad spectrum weed control. Follow the recommendations, precautions and restrictions including cropping restrictions on the tankmix partner label.

Apply PROWL 60 WDG at a rate of 2.8 kg/ha with the following herbicide tankmix partners:

TANKMIX	APPLICATION	TIMING	RATE	WEEDS & GRASSES CONTROLLED	
ATRAZINE 90 WP or 90 WG	Pre-emergence	After planting, before weeds or crop emerge	1.7 kg/ha	Lamb's-quarters <sup>1</sup> Redroot pigweed <sup>1</sup> Common ragweed Smartweed Velvetleaf <sup>2</sup>	Green foxtail Yellow foxtail Fall panicum Barnyard grass
	Post-emergence	Before the 2-leaf stage of annual grasses and up to the 4-leaf stage of corn			
BANVEL II Herbicide	Pre-emergence	After planting, before weeds or crop emerge	1.25 L/ha	Lamb's-quarters <sup>1</sup> Redroot pigweed <sup>1</sup> Velvetleaf Common ragweed	Green foxtail Barnyard grass <sup>3</sup>
	Post-emergence	Before the 2-leaf stage of annual grasses and up to the 4-leaf stage of corn.	0.6 - 1.25 L/ha		
	Remarks: DO NOT apply if temperature exceeds 25 ° C at application time. DO NOT apply on coarse textured soils.				
MARKSMAN Herbicide	Pre-emergence	After planting, before weeds or crop emerge	3.7 - 4.5 L/ha	Lamb's-quarters <sup>4</sup> Redroot pigweed Velvetleaf <sup>5</sup> Common ragweed	Old witchgrass Green foxtail Barnyard grass <sup>4</sup> Crabgrass <sup>4</sup>
	Post-emergence	Before the 2-leaf stage of annual grasses			
	Remarks: DO NOT apply if temperature exceeds 25°C at application time. DO NOT apply where drift may contact sensitive crops.				
Uniformly apply in 220 litres or more water per hectare by ground equipment.					

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

<sup>2</sup> Early post-emergence application only up to the 3-leaf stage of corn.

<sup>3</sup> Provides partial control and reduces competition from this weed.

<sup>4</sup> Post-emergence application provides partial control and reduces competition from this weed.

<sup>5</sup> Pre-emergence application provides partial control and reduces competition from this weed.

## PRECAUTIONS

- DO NOT INCORPORATE as serious corn injury will result.
- DO NOT add oils or surfactants to post-emergence applications.
- Follow cropping restrictions and observe all instructions, precautions and limitations on the tank mix partner label.
- Apply post-emergence applications in water only.

## **MIXING INSTRUCTIONS**

Step I Fill tank one-half to three quarters full with clean water and agitate.

Step II Add the tank-mix ingredients in the order listed below:

(i) WETTABLE POWDER formulations (ATRAZINE 90 WP or 90 WG):

Make a slurry of the wettable powder in water (1 part WP 2 parts water).  
Add the slurry slowly into the partially-filled tank while agitating.

(ii) DRY FLOWABLE/WATER DISPERSIBLE GRANULE formulations (PROWL 60 WDG):

Add the granules to the partially filled tank while agitating.

(iii) EMULSIFIABLE CONCENTRATE formulations (BANVEL II Herbicide, MARKSMAN Herbicide):

Add the EC to the partially filled tank while agitating.

Step III Fill the remainder of the tank with water while agitating.

Step IV MAINTAIN CONTINUOUS AGITATION WHILE ADDING HERBICIDES AND UNTIL SPRAYING IS COMPLETE. If the spray mixture settles any time, thorough agitation is essential to re-suspend the mixture before spraying is resumed. Continue agitation while spraying.

## **SPRAYING INSTRUCTIONS**

Apply using only ground operated boom sprayers. DO NOT apply when weather conditions favour drift from the target area.

Use a properly calibrated low-pressure (138 kPa to 276 kPa) sprayer equipped with 80° or 110° flat fan nozzles for uniform spray distribution and to minimize drift. Keep the by-pass line on or near the bottom of the tank to minimize foaming. Use nozzle screens larger than 50 mesh. Do not use a boom height greater than 30 cm.

## **SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATION**

### **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.

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, rangelands, 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 Habitats
		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*	Field corn	5	2	1	20	10	3	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 labelled 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 labelled 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.

### FOLLOW CROP RESTRICTIONS

In the year following PROWL 60 WDG application, plant to corn or soybeans. Refer to the tank-mix partner label for rotational cropping restrictions.

If crop failure occurs, land treated with PROWL 60 WDG can be reseeded only with the original crop (corn), provided seeding depth is below the retilled layer. DO NOT plant corn where land preparation prior to seeding has incorporated the PROWL 60 WDG into the seed germination zone. Crop injury will result if seed is planted in the retilled layer of soil which was treated with PROWL 60 WDG.

ONLY corn may be planted in the year of application. Do not plant fall seeded crops (winter wheat, winter barley, winter rapeseed) on land where PROWL 60 WDG was applied the previous spring.

### RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, PROWL 60 WDG is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to PROWL 60 WDG 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:

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- Where possible, rotate the use of PROWL 60 WDG 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.

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™/®All products listed are trademarks or registered trademarks of their respective companies.

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## 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.

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

## **TOXICOLOGICAL INFORMATION**

Treat symptomatically

## **ENVIRONMENTAL HAZARDS**

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

## **STORAGE**

DO NOT STORE ABOVE 50°C.

Do not store near food or feed products.

## **DISPOSAL**

1. Thoroughly empty contents of bag into the application device.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
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