

GROUP	9	10	HERBICIDE
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**ROUNDUP FASTFORWARD™ PRESEED**  
Water Soluble Herbicide

**SOLUTION**

**AGRICULTURAL**

**DANGER CORROSIVE TO EYES**

**CAUTION SKIN IRRITANT**



**CAUTION**

**POISON**

**ACTIVE INGREDIENT:** 300 grams glyphosate acid equivalent per litre, present as  
"isopropylamine salt"  
10 grams glufosinate ammonium per litre

**REGISTRATION NUMBER 25795 PEST CONTROL PRODUCTS ACT**

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

**Read NOTICE before buying or using. If notice terms are not acceptable, return at once unopened**

**BAYER CROPSCIENCE INC**  
Suite 200, 160 Quarry Park Blvd SE  
Calgary, Alberta T2C 3G3  
1-888-283-6847  
[www.cropscience.bayer.ca](http://www.cropscience.bayer.ca)

Net Contents: 10 L

2020-1550  
2020-08-04

2020

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.**

**MAY CAUSE EYE IRRITATION.**

**HARMFUL IF SWALLOWED.**

Avoid contact with eyes or prolonged contact with skin.

Wear goggles or face shield and chemical-resistant gloves when mixing and loading, and during cleanup and equipment repair activities.

For good hygiene practice, wear a long sleeved shirt and long pants when handling Roundup FastForward PreSeed Water Soluble Herbicide.

The restricted entry interval is 12 hours after application for all agricultural uses.

## **FIRST AID**

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

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

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

**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.

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. Observe buffer zones specified under **DIRECTIONS FOR USE**.
- To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.
- Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

### **PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fibreglass, plastic and plastic-lined steel containers. **DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.** This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

**In case of an emergency involving this product**, Call Bayer CropScience collect, day or night:

Accident/Spills/Medical Emergency..... 1-800-334-7577

For additional information on this or other Bayer CropScience agricultural products, call Product Support Line at: 1-888-283-6847

### **STORAGE**

Avoid contamination of seed, feed, and foodstuffs.  
Soak up small amounts of spill with absorbent clays.

### **DISPOSAL**

#### **RECYCLABLE CONTAINERS:**

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

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

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

**RETURNABLE CONTAINERS:**

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

**REFILLABLE CONTAINERS:**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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

Not for re-labelling or repackaging.

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## **Roundup FastForward PreSeed Water Soluble HERBICIDE**

### **PRODUCT DESCRIPTION**

**Water soluble herbicide for non-selective weed control in CROPLAND SYSTEMS.**

#### **CROPLAND USES INCLUDE:**

In cropping systems before planting of all crops; in minimum tillage systems; in forage, legume and grass establishments; and grasses for seed production.

Not for re-labelling or repackaging.

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Accident/Spills/Medical Emergency..... 1-800-334-7577

For additional information on this or other Bayer CropScience agricultural products, call Product Support Line at: 1-888-283-6847

### **PRECAUTIONS**

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**MAY CAUSE EYE IRRITATION.**

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The restricted entry interval is 12 hours after application for all agricultural uses.

### **FIRST AID**



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## **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

## **ENVIRONMENTAL HAZARDS**

- **TOXIC** to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.
- To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.
- Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

## **PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fibreglass, plastic and plastic-lined steel containers. **DO NOT MIX, STORE OR APPLY THIS**

PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

## **STORAGE**

Avoid contamination of seed, feed, and foodstuffs.  
Soak up small amounts of spill with absorbent clays.

## **DISPOSAL**

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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.

## **DIRECTIONS FOR USE**

### **GENERAL INFORMATION**

Do not apply this product using aerial spray equipment.

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

ROUNDUP FASTFORWARD PRESEED herbicide, a water soluble liquid, mixes readily with water for application as a foliage spray for the control or destruction of most herbaceous plants. It may be applied through most field type sprayers after dilution and thorough mixing with water in accordance with the label instructions.

This herbicide moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual and perennial weeds occur within 2 to 5 days. Extremely cool or cloudy weather at treatment time may slow down activity of this product and delay visual effects of control. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above ground growth and deterioration of underground plant parts.

Delay application until vegetation has emerged to the stages described for control of such vegetation under the annual and perennial weed control sections of this booklet to provide adequate leaf surface to receive the spray. Plants emerging after application from underground rhizomes or root stocks of perennials will not be affected by the spray and will continue to grow.

Always use the higher rate of this product per hectare within the recommended range when weed growth is heavy or dense, or weeds are growing in an undisturbed (non-cultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

This product does not provide residual weed control. For subsequent residual weed control follow a label approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

Heavy rainfall immediately after application may wash the chemical off the foliage and a repeat treatment may be required. Do not apply if rainfall is forecast for the time of application.

Do not mix with any surfactant, pesticide, herbicide oils or any other material other than water unless specified in this booklet. For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of run-off.

**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 or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.**

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 inversions, application equipment and sprayer settings.

#### RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, Roundup Ultra Liquid Herbicide is a Group 9 and 10 herbicide. Any weed population may contain or develop plants naturally resistant to Roundup Ultra Liquid Herbicide and other Group 9 and 10 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 Roundup Ultra Liquid Herbicide or other Group 9 and 10 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance

and identify alternative herbicide options.

- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations
  - for specific crops and weed biotypes.
  - For further information or to report suspected resistance, contact Bayer CropScience at 1-888-283-6847 or at [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

## **MIXING AND APPLICATION**

### **PRECAUTIONS**

**ATTENTION: AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.**

**APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.**

**AVOID DRIFT - EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURING DESIRABLE PLANTS AND CROPS.** Do not allow spray mist to drift since even minute quantities of spray can cause severe damage or destruction to nearby crops, plants or other areas on which treatment is not intended, or may cause other unintended consequences. Do not apply when winds are gusty or in excess of 8 kilometres per hour or when other conditions, including lesser wind velocities, will allow drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in fine particles (mist) which are more likely to drift.

**DO NOT USE IN GREENHOUSES. REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM PONDS AND UNLINED DITCHES.**

Clean sprayer and parts immediately after using this product by thoroughly flushing with water. Do not contaminate water sources by disposal of wastes or cleaning of equipment.

**NOTE:** Use of this product in any manner not consistent with this booklet may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

## **MIXING AND APPLICATION EQUIPMENT INFORMATION**

### **MIXING**

For ground type sprayers, fill the spray tank with one-half the required amount of water. Add the proper

amount of herbicide (see "Weed Control" sections of this label) and mix well before adding the remaining portion of water. Placing the filling hose below the surface of the liquid solution will prevent excessive foaming. Removing hose from tank immediately will avoid back siphoning into water source. Use of mechanical agitators may cause excessive foaming. Bypass lines should terminate at the bottom of the tank.

## **APPLICATION EQUIPMENT**

### **BOOM EQUIPMENT**

**For control of perennial weeds listed on this booklet using conventional boom equipment--** Apply this product in 50 to 300 litres of clean water per hectare as a broadcast spray using no more than 275 kPa pressure. See "**Weed Control**" sections of this label for rates to control specific weeds.

**For control of annual weeds listed on this booklet using conventional boom equipment--**Apply this product in 50 to 100 litres of clean water per hectare as a broadcast spray, except as otherwise stated on this label using no more than 275 kPa pressure. See "**Weed Control**" sections of this label for rates to control specific weeds.

### **Buffer zones:**

i) 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 S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

Airblast or mist blower application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side. For airblast applications, turn off outward pointing nozzles at row ends and outer rows.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

ii) **Buffer zones:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment, inter-row hooded sprayer, low-clearance hooded or shielded sprayers that ensure spray drift does not come in contact with orchard crop fruit or foliage, soil drench and soil incorporation.

For application to rights-of-way and for forestry uses, buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (for example, wind direction, low wind speed) and spray equipment (for example, coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive aquatic habitats.

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

Agricultural and non-cropland systems	Maximum number of applications	Buffer Zones (metres) Required for the Protection of:	
		Aquatic habitats	Terrestrial habitats
<b>Agricultural crop system and ground boom application method</b>			
Pre-seeding applications for rye, cranberry, filberts, hazelnut and all other crops. Established pasture and summer fallow. Ginseng new garden.	1	1	1
Ginseng - existing established garden, Canola – Roundup Ready hybrid for seed production	2	1	1
Filberts or hazelnut, sugar beets (glyphosate tolerant varieties)	4	1	1
Corn (glyphosate non-tolerant varieties including grain, silage and ornamental types), sugar beet (glyphosate non-tolerant varieties), strawberry, blueberry highbush and lowbush, walnut, chestnut, Japanese heartnut, Turf grass (prior to establishment or renovation)	2	1	2

Agricultural and non-cropland systems	Maximum number of applications	Buffer Zones (metres) Required for the Protection of:	
		Aquatic habitats	Terrestrial habitats
Wheat, barley, oats, soybean (glyphosate non-tolerant varieties), corn-sweet (glyphosate tolerant varieties), canola (glyphosate non-tolerant varieties), peas, dry beans, flax (including low linoleic acid varieties), lentils, chickpea, lupin (dried), fava bean (dried), mustard (yellow/white, brown, oriental), pearl millet, sorghum (grain) (not for use as a forage crop), asparagus, corn (glyphosate tolerant varieties), forage grasses and legume including seed production	3	1	2
Canola (glyphosate tolerant varieties), soybean (glyphosate tolerant varieties)	4	1	2
Apple, apricot, cherry (sweet/sour), peaches, pears, plums, grapes	3	1	3

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

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

## WEEDS CONTROLLED

This product controls many annual and perennial grasses and broadleaf weeds when applied as recommended and under conditions described. For information on how to control specific weeds including herbicide rate refer to the "**Annual Weed Control**" and "**Perennial Weed Control**" sections of this label. The following is a partial list of weeds controlled:

### ANNUAL WEEDS

#### Annual Grasses



**Blue Grass (annual)**

*Poa annua*

**Crab Grass**

*Digitaria sanguinalis*

**Downy Brome**

*Bromus tectorum*

**Giant Foxtail**

*Setaria faberi*

**Green Foxtail**

*Setaria viridis*

**Persian Darnel**

*Lolium persicum*

**Volunteer Barley**

*Hordeum spp.*

**Volunteer Corn**

*Zea Mays*

**Volunteer Wheat**

*Triticum spp.*

**Wild Oats**

*Avena fatua*

**Annual Broadleaf Weeds**

**Fleabane (Canada)**

*Erigeron canadensis*

**Flixweed**

*Descurania sophia*

**Hempnettle**

*Galeopsis tetrahit*

**Kochia**

*Kochia scoparia*

**Lady's-Thumb**

*Polygonum persicaria*

**Lamb's-Quarters (common)**

*Chenopodium album*

**Narrow-leaved Hawk's Beard**

*Crepis tectorum*

**Narrow-leaved Vetch**

*Vicia angustifolia*

**Prickly Lettuce**

*Lactuca scariola*

**Ragweed (common)**

Ambrosia artemisiifolia

**Redroot Pigweed**

Amaranthus retroflexus

**Russian Thistle**

Salsola pestifer

**Shepherd's Purse**

Capsella bursa-pastoris

**Sowthistle (annual)**

Sonchus oleraceus

**Stinkweed**

Thlaspi arvense

**Volunteer Canola**

Brassica spp

**Volunteer Flax**

Linum spp

**Wild Buckwheat**

Polygonum convolvulus

**Wild Mustard**

Sinapis arvensis

**PERENNIAL WEEDS**

**Perennial Grasses / Sedges**

**Blue Grass (Canada)**

Poa compressa

**Blue Grass (Kentucky)**

Poa pratensis

**Brome Grass (smooth)**

Bromus inermis

**Cattail (common)**

Typha latifolia

**Foxtail Barley**

Hordeum jubatum

**Quackgrass**

Agropyron repens

**Yellow Nutsedge**

Cyperus esculentus

**Perennial Broadleaved Weeds**

**Cottontop**

- Eriophorum chamissionis  
**Curled Dock**
- Rumex crispus  
**Dandelion**
- Taraxacum officinale  
**Field Bindweed**
- Convolvulus arvensis  
**Hemp Dogbane**
- Apocynum cannabinum  
**Hoary Cress**
- Cardaria draba  
**Knotweed (Japanese)**
- Polygonum cuspidatum  
**Milkweed (common)**
- Asclepias syriaca  
**Poison Ivy**
- Rhus radicans  
**Wormwood (Absinth)**
- Artemisia absinthium

**CROPLAND USES**

**ALWAYS READ PRECAUTIONARY STATEMENTS, GENERAL INFORMATION AND MIXING AND APPLICATION PRECAUTIONS PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION.**

DO NOT APPLY BY AIR

**ANNUAL WEED CONTROL**

The following tables provide rates and specific application instructions for control of the annual weeds listed.

**ANNUAL WEED CONTROL WITH ROUNDUP FASTFORWARD PRESEED WATER SOLUBLE HERBICIDE**

<b>RATE L/HA</b>	<b>GROWTH STAGE</b>	<b>WEEDS CONTROLLED</b>	<b>COMMENTS (Apply in 50 - 100 L/ha water)</b>
1.5-2.25	weeds up to 15 cm in height	wild oats, green foxtail, volunteer barley, volunteer wheat, downy brome, giant foxtail, and Persian darnel	

		volunteer canola (except volunteer glyphosate tolerant canola e.g. Roundup Ready canola) , wild mustard, lady's-thumb, stinkweed, flixweed, kochia*, lamb's quarters, redroot pigweed, hempnettle, russian thistle, volunteer flax, common ragweed**, Canada fleabane**, wild buckwheat***, narrow-leaved hawk's beard****	<p>* suppression only</p> <p>** DO NOT use these rates on plants greater than 8 cm in height</p> <p>*** for 3 - 4 leaf stage use 2.25 L/ha rate</p> <p>**** for weeds greater than 8 cm in height use 2.25 L/ha rate</p>
2.7	weeds up to 15 cm in height	<p>all weeds above plus: crab grass, annual blue grass</p> <p>kochia, prickly lettuce, shepherd's purse, annual sow thistle, and narrow-leaved vetch</p>	
4.2	weeds over 15 cm in height	all annual weeds listed above	

## ADDITIONAL IMPORTANT INFORMATION FOR ANNUAL WEED CONTROL

Allow at least 1 day after treatment before tillage.

Annual weeds generally will continue to germinate from seed throughout the growing season. Repeat treatments may be necessary to control later germinating weeds, in some situations.

For additional information and precautions, refer to the "General Information" and "Mixing and Application" sections of this label.

## PERENNIAL WEED CONTROL

**ALWAYS READ PRECAUTIONARY STATEMENTS, GENERAL INFORMATION AND MIXING AND APPLICATION SECTIONS PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION.**

When applied as recommended under the conditions described, this product will control the perennial weeds listed in the following table:

### PERENNIAL WEED CONTROL WITH ROUNDUP FASTFORWARD WATER SOLUBLE PRESEED HERBICIDE

WEED	APPLICATION			COMMENTS
	GROWTH STAGE	RATE L/ha	WATER VOLUME L/ha	
<b>Quackgrass</b> (control, light to moderate infestations)	3 to 4 green leaves or more	3.0	50 - 300	<ul style="list-style-type: none"> <li>. Allow 3 or more days after treatment before tillage.</li> <li>. For higher water volumes (i.e. 150 - 300 L/ha) an approved surfactant must be added at 0.5 litres per 100 litres of clean water (0.5% v/v).</li> </ul>
<b>Quackgrass</b> (long term control, heavy infestations, high water volumes)	3 to 4 green leaves or more	3.0 - 8.4	50 - 300	<ul style="list-style-type: none"> <li>. Allow 3 or more days after treatment before tillage.</li> <li>. Rates higher than 3.0 L/ha will provide more consistent, longer term control, especially with heavier infestations and/or higher water volumes (i.e. 150-300 L/ha)</li> </ul>
<b>Canada Thistle</b>	bud stage or	5.7 - 8.4	100 - 300	<ul style="list-style-type: none"> <li>. Allow 5 or more days</li> </ul>

WEED	APPLICATION			COMMENTS
	GROWTH STAGE	RATE L/ha	WATER VOLUME L/ha	
	beyond			after treatment before tillage
<b>Dandelion</b>	< 15 cm	3.0	50 - 100	<ul style="list-style-type: none"> <li>. Allow 3 or more days after treatment before tillage for all rates.</li> <li>. Use the higher rate when infestations are heavy</li> <li>. Refer to the Dandelion notes for more information</li> </ul>
	> 15 cm	4.4 - 6.0	50 - 300	
<b>Foxtail Barley</b>	seedling to heading	3.0 - 6.0	50 - 100	<ul style="list-style-type: none"> <li>. Allow a minimum of 1 day after treatment before tillage or seeding.</li> <li>. Use higher rates for larger, more established plants, heavy infestations, or if plants are stressed.</li> </ul>
<b>Field Bindweed</b>	full bloom or beyond	8.4 - 14.4	100 - 300	<ul style="list-style-type: none"> <li>. Allow 7 or more days after treatment before tillage.</li> </ul>
<b>Other Perennials</b> (see Weeds Controlled listing ).	early heading or early bud stage	8.4 - 14.4	100 - 300	<ul style="list-style-type: none"> <li>. Allow 7 or more days after application before tillage.</li> </ul>

## SPECIAL NOTES FOR PERENNIAL WEED CONTROL

### QUACKGRASS

For **season-long control on fall tilled ground**: Apply 3.0 litres per hectare of this product in spring prior to seeding. Apply in 50 to 100 litres per hectare of clean water as described in the preceding table. Delay application until the majority of quackgrass plants have 4-5 green leaves. This stage usually occurs 1 to 4 weeks later on fall tilled ground than on undisturbed ground. Reduced control may result on ground tilled deeper than 15 centimetres.

#### NOTE:

This treatment will provide season-long control of quackgrass on fall tilled ground. Reduced control will be experienced versus this product on non-fall tilled ground. Repeat treatments may be necessary.

**Applications on forages** should be followed by tillage 3 days or later and should be made when

good growing conditions exist.

**If a frost has occurred**, wait several days to determine if the quackgrass has recovered. Quackgrass can be treated after a mild frost provided there are 3 to 4 green leaves actively growing at the time of application. Do not apply after the first damaging frost in the fall.

### **SURFACTANTS:**

The following is a list of approved surfactants for use with ROUNDUP FASTFORWARD PRESEED herbicide for control of quackgrass:

Agral 90  
Ag Surf  
Companion

**Always refer to surfactant label for specific instructions regarding use of that product.**

Agral is a registered trademark of Syngenta Limited, England  
Ag Surf is a registered trademark of Interprovincial Cooperative Ltd.  
Companion is a trademark of Dow AgroSciences LLC.

### **DANDELION**

Applications should be made up to and including bloom for best results. Follow-up control measures should be used to manage new dandelions germinating from seed to maintain control throughout the season.

### **ALL PERENNIAL WEEDS**

**Weed Stages:** Weeds must be at the proper stage for effective control. Refer to "**Perennial Weed Control with ROUNDUP FASTFORWARD PRESEED Herbicide**"

**Nozzle Type:** For best results with conventional boom equipment apply this product with 50 to 300 litres per hectare of clean water using flat fan nozzles and no more pressure than 275 kPa.

**Rhizome Dormancy:** Reduced control may result if rhizomes have become dormant. Dormancy may occur if soil fertility is low and/or the land has not been tilled for several years.

**Mowing Effects:** Mowing prior to application will reduce effectiveness unless weeds are allowed to regrow to the proper stage before application.

**Tillage Effects:** Fall or spring tillage prior to spring applications and tillage between harvesting and fall applications will reduce the effectiveness on perennial weeds. Follow-up tillage after application should be delayed 3-7 days for best results (see Weed Control Table for specific tillage interval for each weed).

**Rainfall Effects:** Heavy rainfall immediately after application may wash the chemical off the foliage and a repeat treatment may be required. Do not apply if rainfall is forecast for the time of application.

**Regrowth from Germinating Seeds:** This product only controls emerged plants. Repeat treatments or other weed control measures may be required to control weeds regenerating from seeds or other underground parts.

**Frost Effects:** Heavy frosts prior to application may reduce control. Do not apply after the first damaging frost in the fall.

## **CROPLAND SITUATIONS**

**ALWAYS READ PRECAUTIONARY STATEMENTS, GENERAL INFORMATION AND MIXING AND APPLICATION SECTIONS PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION.**

This product can be applied as a broadcast spray or spot treatment prior to planting all crops. **For specific instructions on weed control in the following cropping situations, always refer to the “Annual and Perennial Weed Control” sections for more information.**

### **PRIOR TO / OR AFTER PLANTING - ALL FIELD CROPS**

This product may be applied prior to planting of all crops or after planting but prior to emergence of all crops for control of emerged weeds listed on this label. Ensure weeds are at the desired stage at the time of application. This product does not provide residual weed control, therefore applications made too far in advance of seeding may allow weeds to emerge between application and seeding or crop emergence.

### **GRAZING ALLOWANCES**

Allow 3 to 5 days for ROUNDUP FASTFORWARD PRESEED Water Soluble Herbicide to translocate into all plant parts before grazing or harvesting treated areas in forages.

### **FORAGE LEGUMES AND GRASSES**

This product may be applied for control of emerged weeds prior to emergence of forage legumes and grasses. If the forages are to be under-seeded with a cover crop, this product must be applied prior to planting the cover crop.