

(Base Label)

GROUP	9	HERBICIDE
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GLYPHOSATE WATER SOLUBLE HERBICIDE

SOLUTION

Water soluble herbicide for non-selective weed control in CROPLAND SYSTEMS AND IN NON-CROPLAND AREAS.

AGRICULTURAL and INDUSTRIAL

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

GUARANTEE: Glyphosate, 360 grams acid equivalent per litre present as isopropylamine salt.

REGISTRATION NO. 29216 PEST CONTROL PRODUCTS ACT

CAUTION



IRRITANT

WARNING



EYE IRRITANT

**MAY CAUSE EYE IRRITATION
HARMFUL IF SWALLOWED**

NET CONTENTS: 10 Litres

Interprovincial Cooperative Limited
P.O. Box 1050, Saskatoon, Saskatchewan S7K 3M9
1-204-233-3461

RC 000-0000

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

CAUSES EYE IRRITATION

AVOID CONTACT WITH EYES OR SKIN

HARMFUL IF SWALLOWED

HARMFUL IF INHALED

WASH HANDS AND EXPOSED SKIN BEFORE EATING, DRINKING, OR SMOKING,
AND AFTER WORK

Avoid contact with eyes, skin or clothing

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

FOR GOOD AGRICULTURAL PRACTICE

DURING MIXING, LOADING, CLEANUP, AND REPAIR PROCEDURES WEAR GLOVES,
COVERALLS, AND EYE PROTECTION

WASH SPLASHES FROM SKIN AND EYES IMMEDIATELY

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.

FIRST AID

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

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

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

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. 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.

TOXICOLOGICAL INFORMATION

Treat symptomatically. No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL

Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL HAZARDS

HARMFUL to aquatic organisms. Avoid direct application to any body of water populated with fish or used for domestic purposes. Do not use in areas where adverse impact on domestic water or aquatic species is likely. Do not contaminate water by disposal of waste or cleaning of equipment. Avoid all drift or contact with vegetation for which treatment is not intended as damage or destruction may occur.

STORAGE

Avoid contamination of seed, feed, and foodstuffs.
Soak up small amounts of spill with absorbent clays.
Keep only in original container, tightly closed.

DISPOSAL**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.
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Returnable Containers:

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Refillable Containers

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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

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(Booklet)

GROUP

9

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NOTICE TO USER

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DIRECTIONS FOR USE**GENERAL INFORMATION**

Do not apply this product using aerial spray equipment except under conditions as specified within this label.

Glyphosate Water Soluble 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 standard industrial or field type sprayers after dilution and thorough mixing with water in accordance with the booklet instructions.

This herbicide moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days but on most perennial weeds may not occur until 7 to 10 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. Unemerged plants arising from underground rhizomes or root stocks of perennials will not be affected by the spray and will continue to grow. For this reason best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

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 runoff.

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 km/h 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.

Drain and 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 or industrial 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 booklet) 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 (a one-way valve should be installed to prevent back siphoning). Use of mechanical agitators may cause excessive foaming. Bypass lines should terminate at the bottom of the tank.

For use in knapsack sprayers, it is suggested that the proper amount of this herbicide be mixed with water in a larger container. Fill sprayer with the mixed solution.

APPLICATION EQUIPMENT

BOOM EQUIPMENT

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

HAND HELD AND HIGH VOLUME EQUIPMENT

(use coarse sprays only)

For control of weeds and woody brush and trees listed in the "Weed Controlled" section of this label using knapsack sprayers or high volume spraying equipment utilizing handguns or other suitable nozzle arrangements to apply a directed spray. Unless otherwise specified, make a 1% solution of this product in water (1 litre of this product in 100 litres of water) and apply to foliage of vegetation to be controlled. For best results, use a 2% solution (2 litres of this product in 100 litres of water) on harder to control perennials such as field bindweed, hemp dogbane, milkweed and Canada thistle. Use the higher rate to control maple, alder, *Rubus* species and to suppress willow which are actively growing from June through August.

Applications should be made on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to point of runoff. Hand gun applications should be properly directed to avoid spraying desirable plants.

SELECTIVE EQUIPMENT

Selective equipment such as **WIPER** and **ROLLER** applicators can be used for weed control in non-crop areas. For information regarding use of this product with selective equipment, refer to "**Selective Equipment**" section of this label.

AERIAL EQUIPMENT (NON-CROPLAND USE ONLY)

Aerial application can only be used for weed control in industrial rights-of-way. Refer to "**Aerial Applications: For industrial rights-of-way only**" section for more information.

WEEDS CONTROLLED

This product controls many annual and perennial grasses, broadleaf weeds, and woody brush and trees 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 (large)

Digitaria sanguinalis

Crab Grass (smooth)

Digitaria ischaemum

Downy Brome

Bromus tectorum

Fall Panicum

Panicum dichotomiflorum

Giant Foxtail

Setaria faberii

Green Foxtail

Setaria viridis

Persian Darnel

Lolium persicum

Volunteer Barley

Hordeum spp.

Volunteer Corn

Zea Mays

Volunteer Wheat

Triticum spp.

Wild Oats

Avena fatua

Wild Proso Millet

Panicum miliaceum

Yellow Foxtail

Setaria glauca

Other**Dodder**

Cuscuta spp.

Annual Broadleaf Weeds**Chickweed***Stellaria media***Cleavers***Galium aparine***Cocklebur***Xanthium strumarium***Corn Spurry***Spergula arvensis***Cowcockle***Vaccaria pyramidata***Eastern Black Flowering Nightshade***Solanum ptycanthum***Fleabane (Canada)***Erigeron canadensis***Flixweed***Descurania sophia***Green Smartweed***Polygonum scabrum***Hempnettle***Galeopsis tetrahit***Kochia***Kochia scoparia***Lady's-Thumb***Polygonum persicaria***Pennsylvania Smartweed***Polygonum pennsylvanicum***Prickly Lettuce***Lactuca scariola***Ragweed (common)***Ambrosia artemisiifolia***Redroot Pigweed***Amaranthus retroflexus***Round-Leaved Mallow***Malva pusilla***Russian Thistle***Salsola pestifer***Shepherd's Purse***Capsella bursa-pastoris***Smooth Pigweed***Amaranthus hybridus***Sowthistle (annual)***Sonchus oleraceus***Stinkweed***Thlaspi arvense***Storksbill***Erodium cicutarium***Volunteer Flax***Linaria spp***Lamb's-Quarters (common)***Chenopodium album***Narrow-leaved Hawk's Beard***Crepis tectorum***Narrow-leaved Vetch***Vicia angustifolia***Night-flowering Catchfly***Silene noctiflora***Non-glyphosate tolerant Volunteer****Canola (rapeseed)***Brassica spp***Wild Buckwheat***Polygonum convolvulus***Wild Mustard***Sinapsis arvensis***Wild Tomato***Solanum triflorum***Velvetleaf***Abutilon theophrasti***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***Wire-Stemmed Muhly***Muhlenbergia frondosa***Yellow Nutsedge***Cyperus esculentus*

Perennial Broadleaved Weeds**Alfalfa***Medicago spp.***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***Purple Loosestrife***Lythrum salicaria***Sow Thistle (perennial)***Sonchus arvensis***Thistle (Canada)***Cirsium arvense***Toad Flax***Linaria vulgaris***Wormwood (Absinth)***Artemisia absinthium***Woody Brush and Trees****Alder***Alnus spp.***Birch***Betula spp.***Broadleaved meadowsweet***Spiraea latifolia***Canadian rhododendron***Rhododendron canadense***Cedar***Thuja spp.***Cherry***Prunus spp.***Douglas Fir***Pseudotsuga spp.***Hemlock***Tsuga spp.***Maple***Acer spp.***Mountain-fly honeysuckle***Lonicera villosa***Pine***Pinus spp.***Poplar***Populus spp.***Raspberry / Salmonberry***Rubus spp.***Sheep laurel***Kalmia angustifolia***Snowberry (Western)***Symphoricarpos occidentalis***Sweet fern***Comptonia peregrina***Willow***Salix spp.***Withrod***Viburnum cassinoides***CROPLAND USES****CROPLAND USES INCLUDE:**

In cropping systems before planting of all crops; in minimum tillage systems; in pasture renovation; in forage, legume and grass establishments; in tree plantings; and grasses for seed production. DO NOT apply after crop emergence.

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

ANNUAL WEED CONTROL

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

ANNUAL WEED CONTROL WITH GLYPHOSATE WATER SOLUBLE HERBICIDE

RATE L/HA	GROWTH STAGE	WEEDS CONTROLLED	COMMENTS (Apply in 50 - 100 L/ha water)
0.75	weeds up to 8 cm in height	wild oats, green foxtail, volunteer barley, volunteer wheat non-glyphosate tolerant volunteer canola (rapeseed), wild mustard, lady's-thumb, stinkweed	for wild oats apply at 1 - 3 leaf stage add 350 mL of a surfactant registered for use such as Agral® 90, Ag Surf®, or Companion™ for heavy wild oat infestations use 1.0 L/ha rate
1.0	weeds 8 cm to 15 cm in height	all annual grasses listed above all annual broadleaved weeds listed above plus flixweed† and kochia†	add 350 mL of surfactant registered for use as listed above † suppression only. Refer to higher rates of this table or tank mix table for control options.
1.25-1.9	weeds up to 15 cm in height	all annual grasses listed above plus downey brome, giant foxtail, and persian darnel all annual broadleaved weeds listed above plus lamb's quarters, redroot pigweed, hempnettle, flixweed, Russian thistle, volunteer flax, common ragweed†, Canada fleabane†, wild buckwheat††, narrow-leaved hawk's beard†††,	no surfactant required for tank mix weed control options see annual weed control with tank mix table † DO NOT use these rates on plants greater than 8 cm in height †† for 3 - 4 leaf stage use 1.9 L/ha rate ††† for weeds 8 cm to 15 cm in height use 1.9 L/ha rate
2.25	weeds up to 15 cm in height	all annual grasses listed above plus crab grass and annual blue grass	for additional annual broadleaved weed control options, refer to tank mix table

		all annual broadleaved weeds listed above plus kochia, prickly lettuce, shepherd's purse, annual sow thistle, and narrow-leaved vetch	
3.5	weeds over 15 cm in height	all annual grasses and broadleaved weeds listed above	for additional annual broadleaved weed control options refer to tank mix table

Agral® is a registered trademark of Imperial Chemical Industries PLC, England.

Ag Surf® is a registered trademark of TMC Distributing Ltd.

Companion™ is a trademark of Rohm and Haas Canada Inc.

NOTE: For spot treatment, 0.75 - 3.5 L/ha is approximately equivalent to 8 - 35 mL/100 m², respectively.

**ANNUAL WEED CONTROL WITH GLYPHOSATE WATER SOLUBLE HERBICIDE
TANK MIXTURES
FOR SUMMERFALLOW & MINIMUM TILLAGE SYSTEMS**

TANK MIXTURES	RATE L/HA	WEEDS CONTROLLED	COMMENTS (Apply in 50-100L/ha water; add 350mL/ha of surfactant - see list in "Addition of Surfactant" section)
Glyphosate Water Soluble Herbicide + Banvel® or Oracle®	0.75 -1.0 + 0.29	volunteer cereal, wild oats, green foxtail, non-glyphosate tolerant volunteer canola (rapeseed), wild mustard, flixweed†, lamb's quarters, lady's thumb, stinkweed, kochia, Russian thistle, cow cockle, redroot pigweed††, wild buckwheat††	This tank mix is registered for summerfallow use only . Weeds should be less than 15 cm tall and actively growing for best results. Use higher rate if weeds are beyond 8 cm in height †Glyphosate Water Soluble Herbicide applied at 1.0 L/ha rate only. ††Suppression only. See other tank mixtures for control options.
Glyphosate Water Soluble Herbicide	0.75 - 1.0	volunteer cereals, green foxtail, non-glyphosate tolerant volunteer canola (rapeseed), wild mustard, lady's thumb, stinkweed, wild buckwheat†	This tank mix is registered only for use in summerfallow, and prior to planting wheat, oats and barley in minimum tillage systems . Weeds should be less than 15 cm tall and actively growing for best results.

+ Pardner®	+ 1.25	redroot pigweed††, kochia††, wild oats††	Use higher rate if weeds are beyond 8 cm in height † use Glyphosate Water Soluble Herbicide at 1.0 L/ha rate only for wild buckwheat control ††1.0 L rate, suppression only. See other tank mixtures for control options
+ 2,4-D#	+ 1.2	volunteer cereals, wild oats† and green foxtail† non-glyphosate tolerant volunteer canola (rapeseed), wild mustard, flixweed, redroot pigweed, lady's thumb, stinkweed, kochia lamb's quarters††, Russian thistle††	This tank mix is registered for summerfallow use only . Weeds should be less than 15 cm tall and actively growing for best results Use higher rate if weeds are beyond 8 cm in height †use Glyphosate Water Soluble Herbicide at 1.0 L/ha rate only for wild oat and green foxtail control ††suppression only. See other tank mixtures for control options

0.56 kg ai/ha of 2,4-D. #, ## Adjust rates accordingly for other 2,4-D formulations. Use only low volatile ester or amine formulations of 2,4-D.

*Trademark of Dow AgroSciences LLC

® Banvel is a registered trademark of BASF Ltd

® Oracle is a registered trademark of Cheminiova Canada Inc.

® Pardner is a registered trademark of Bayer CropScience

NOTE:

Addition of Surfactant - All Glyphosate Water Soluble Herbicide tank mixtures for annual weed control require the addition of a non-ionic surfactant registered for use such as Agral 90, Ag Surf, or Companion. Surfactant should be added at a rate of 350 mL per hectare, in 50-100 L of clean water.

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 GLYPHOSATE WATER SOLUBLE HERBICIDE

WEED	APPLICATION			COMMENTS
	GROWTH STAGE	RATE (L/ha)	WATER VOLUME (L/ha)	
Quackgrass (control, light to moderate infestations)	3 to 4 green leaves or more	2.5	50 - 300	Apply in clean water using flat fan nozzles. Allow 3 or more days after treatment before tillage. Refer to " Quackgrass " notes for more information. For higher water volumes (ie. 150 - 300 L/ha) an approved surfactant must be added at 0.5 litres per 100 litres of clean water (0.5% v/v). Refer to list of surfactants. See also below.
Quackgrass (long term control, heavy infestations, high water volumes)	3 to 4 green leaves or more	2.5 - 7.0	50 - 300	Allow 3 or more days after treatment before tillage. Rates higher than 2.5 L/ha will provide more consistent, longer term control, especially with heavier infestations and/or higher water volumes (i.e., 150-300 L/ha) Refer to "Quackgrass" notes for more information.
Canada Thistle	rosette stage (summerfallow)	2.5	50 - 100	Apply in clean water using flat fan nozzles. Allow 10 or more days after treatment before tillage. Refer to notes in "Canada

				Thistle" section for more information.
Canada Thistle	bud stage or beyond	4.75 - 7	100 - 300	Allow 5 or more days after treatment before tillage. Heavy frost prior to application may decrease control.
Field Bindweed	full bloom or beyond	7 - 12	100 - 300	Allow 7 or more days after treatment before tillage.
Common Milkweed†	bud to full bloom	2.5	50 - 100	Allow 7 or more days after treatment before tillage. Reduced control may occur after full bloom.
	bud to full bloom	12	100 - 300	Milkweed may not all be in the correct stage, therefore, repeat treatments may be required.
Toadflax	Vegetative Stage (summerfallow)	2.5	50-100	Apply in clean water using flat fan nozzles Allow 7 or more days after treatment before tillage in summerfallow
	Bud to Full Bloom			For more information, see summerfallow control.
Alfalfa	Early bud to full bloom stage. Fall applications only	3.7 - 5.0	50 - 300	Allow 5 or more days after treatment before tillage. Use the higher rates when alfalfa populations are high or when heavy grass infestations are also present. For spring applications and control in minimum tillage systems using a 2,4-D tank mix, see Alfalfa Control with 2,4-D Tank Mix Section
Dandelion	< 15 cm	2.5	50 – 100	Allow 3 or more days after treatment before tillage for all rates.
	> 15 cm	3.7 - 5.0	50 – 300	Use the higher rate when infestations are heavy.
	Rosette to full bloom	2.5	50 - 100	Refer to notes in Dandelion Section for more information.

				Allow 7 or more days after treatment before tillage.
Foxtail barley	Seedling to heading	2.5-5.0	50 -100	Allow a minimum of 1 day after treatment before tillage or seeding. Use higher rates for larger, more established plants, heavy infestations or if plants are stressed
Other Perennials (see perennial weeds listing)	early heading or early bud stage	7 - 12	100 - 300	Allow 7 or more days after application before tillage. Use higher rate for weeds beyond 8 cm in height or in heavy weed infestation.
Woody brush and trees	Actively growing from June through August	3-6	100-300	Use higher rate for maple, alder, <i>Rubus</i> species and suppression of willow. Spray to wet.

†**NOTE:** For spot treatment, mix 120 mL of product in 5L clean water per 100 m². (2.5 - 12 L/ha is approximately equivalent to 25 - 120 mL/100 m², respectively).

SPECIAL NOTES FOR PERENNIAL WEED CONTROL

QUACKGRASS

For **season-long control on fall tilled ground:** Apply 2.5L/ha of this product in spring prior to seeding. Apply in 50 to 100 L/ha 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 cm.

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 Glyphosate Water Soluble Herbicide for control of quackgrass:

Agral 90 Enhance*
 Ag Surf Frigate®
 Companion

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

*Trademark of Dow AgroSciences LLC

®Frigate is a registered trademark of Fermenta ASC Corp.

CANADA THISTLE

Control of Canada Thistle at the rosette stage: To ensure the proper timing of application the following steps must be followed:

1. Conduct summerfallow tillage as usual and perform the last tillage operation between July 15th and August 1st.
2. Allow the thistles to regrow for a minimum of 5 weeks until they are a minimum of 15 cm in diameter and in the rosette stage of growth.

NOTE: Canada thistle can be treated after a mild frost provided the leaves are still green and actively growing at the time of application. Do not apply after the first damaging frost in the fall.

Glyphosate Water Soluble Herbicide plus Banvel Tank Mixtures

For control of Canada thistle (and perennial sow thistle) in summerfallow or in post-harvest stubble, apply 1.7 L/ha Glyphosate Water Soluble Herbicide plus 1.25 L/ha Banvel in 100-200 L/ha of clean water. In addition, add 350 mL/ha of a non-ionic surfactant registered for use with this product, such as Agral 90, Ag Surf, or Companion.

For best results in summerfallow, cultivate in the spring and apply when the majority of thistles are 15 cm to 25 cm tall and before the bud stage. Cultivate 3 weeks after application.

In post harvest stubble, apply this tank mixture to actively growing thistles at least 2 weeks prior to a killing frost.

NOTE:

Grow only cereals, canola (including rapeseed), soybeans, field corn, sweet corn, or white beans after application of this tank mixture.

If application is made after September 1st, or if soil moisture levels are extremely low after application, crop injury may occur in the spring following application.

TOADFLAX

Control of Toadflax in a Summerfallow Vegetative Stage

To ensure the proper timing of application, the following steps must be followed:

1. Conduct summerfallow tillage as usual and perform the last tillage operation between July 10-21.
2. Allow toadflax to regrow for a minimum of 4-5 weeks until they are minimum of 15 cm tall and at a lush green vegetative stage.

Note: Toadflax can be treated after a mild frost provided the leaves are still green and actively growing at the time of application. Do not apply after the first damaging frost.

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.

ALFALFA CONTROL WITH 2,4-D TANK MIX:

The addition of 2,4-D may improve alfalfa control in situations where control may be more difficult to obtain, such as in minimum tillage systems where populations are heavy, and with spring applications.

For fall control of established stands of alfalfa, apply 2.5 - 5.0 L/ha Glyphosate Water Soluble Herbicide and 1.2 - 2.4 L/ha of any 500 g/L 2,4-D amine or low volatile ester formulation in 100-200 L water/ha. (Adjust product rates accordingly for other 2,4-D formulations).

For spring applications, use only the low rate of 2,4-D (i.e. 1.2 L/ha) and 2.5 - 5.0 L/ha Glyphosate Water Soluble Herbicide. Only cereal crops not underseeded to legumes may be planted following spring applications of this tank mix, and a 14 day interval between application and planting is required.

Use the higher Glyphosate Water Soluble Herbicide rates when perennial grasses are prevalent.

ALL PERENNIAL WEEDS

Weed Stages: Weeds must be at the proper stage for effective control. Refer to "**Perennial Weed Control with Glyphosate Water Soluble Herbicide** "

Nozzle Type: For best results with conventional boom equipment apply this product with 50 to 300 L/ha 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 5-7 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, post harvest to annual crops, and in summerfallow. **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 Planting - All Crops

This product may be applied prior to planting 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 pre-emergent weed control and newly germinating weeds may be a problem in the crop. **APPLY BEFORE SEEDING OR TRANSPLANTING.**

Post Harvest Stubble Treatment

This product may be applied in the fall as a postharvest stubble treatment for control of perennial weeds such as quackgrass and Canada thistle. Allow weeds to regrow to the desired stage (20-25 cm tall for quackgrass and Canada thistle) before application and ensure they have a high proportion of green coloration. Straw should be removed or evenly spread to allow for proper regrowth and spray coverage. Heavy frosts prior to application may decrease control.

Spot-Treatment (In-Crop)

This product can be applied as an in-crop spot treatment in forage grasses and legumes including seed production. Applications should be made using the same rates and at the same growth stages as listed in the weed control tables or use a 1% solution for annual weeds and quackgrass and a 2% solution for other perennial weeds (a 1% solution equals 1 litre Glyphosate Water Soluble Herbicide in 100 litres of spray solution). One or two per cent solutions should be applied to wet, but not run-off. Applications can be made using a boom sprayer, hose and handgun, or hand sprayer in accordance with instructions in the "Application Equipment" section.

Grazing Restrictions

Applications can be made up to heading of small grains, initial pod set on soy and dry beans, and emergence of seed heads. The crop in the treated area will be killed. Take care to avoid drift for the same reason. **DO NOT APPLY IF CROP GROWTH HAS ADVANCED BEYOND SEED SET. ALLOW 3 TO 5 DAYS FOR GLYPHOSATE WATER SOLUBLE HERBICIDE TO TRANSLOCATE INTO ALL PLANT PARTS BEFORE GRAZING OR HARVESTING TREATED AREAS IN FORAGES.**

Summerfallow Treatment

This product, or labelled tank mixtures, may be applied in summerfallow to control weeds listed on this label. Ensure weeds are at the desired growth stage and actively growing at application for best results. Reduced control may result if weeds are drought stressed. Weeds will continue to germinate from seed throughout the growing season. Repeat treatments may be necessary to control later germinating weeds.

Minimum and Zero Tillage Cropping Systems (All Field Crops, including cereals, oilseeds, pulses, forages, corn and potatoes)

This product may be applied prior to seeding or after seeding, but before crop emergence for control of emerged weeds in minimum and zero tillage cropping systems for all field crops. Applications made too far in advance of seeding may allow weeds to emerge between application and crop emergence, as this product does not provide residual weed control.

Minimum and Zero Tillage Tank Mixtures

Glyphosate Water Soluble Herbicide plus bromoxynil (Pardner) can be applied prior to seeding or after seeding, but before crop emergence **in wheat, barley and oats**. Refer to Annual Weed Control with Glyphosate Water Soluble Herbicide Tank Mixtures table for information.

Glyphosate Water Soluble Herbicide plus Pursuit® can be applied prior to, or after, seeding, but before crop emergence in soybeans. Glyphosate Water Soluble Herbicide will control emerged weeds listed on this label when applied as directed (refer to Annual and Perennial Weed Control sections). Pursuit will control weeds germinating from seed. Add the recommended rates of both products in 100 L of water/ha, following the instructions on the Pursuit herbicide label.

ALWAYS REFER TO THE PURSUIT LABEL FOR FURTHER INFORMATION ON WEEDS CONTROLLED, APPLICATION DIRECTIONS, AND USE PRECAUTIONS.

ONLY SOYBEANS, FIELD CORN, SPRING BARLEY, SPRING WHEAT AND WINTER WHEAT MAY BE PLANTED THE SEASON FOLLOWING A PURSUIT APPLICATION. WINTER WHEAT MAY BE PLANTED THE SAME YEAR AS A PURSUIT APPLICATION TO SOYBEANS, BUT NOT EARLIER THAN 120 DAYS AFTER THE APPLICATION.

DO NOT APPLY AFTER CROP EMERGENCE

® Pursuit is a registered trademark of Cyanamid Canada Inc.

Forage Legumes and Grasses

This product may be applied to control or suppress 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.

Pasture Renovation

Use this product to control or suppress existing vegetation for zero-tillage seeding of legumes or grass pasture into established sod for pasture renovation. Delay spraying until weed growth is at least 20 cm in height and a maximum number of seedlings or shoots have emerged. Application can be made immediately before, during or after seeding, but before crop emergence.

Forage Seed Production

For spot treatment control of perennial weed problems such as quackgrass and Canada thistle in seed forage fields, apply as directed to vegetation that is at least 20 to 25 cm in height but before emergence of seed head. The crop in the treated areas will be killed. Take care to avoid drift outside target area for the same reason.

Tree Plantings

Shelterbelts and Nursery Stock (Woody Ornamentals)

This product may be used to control listed annual or perennial weeds prior to planting, or as a post directed spray in established nurseries or shelterbelts of the following species:

Deciduous

Ash - Fraxinus spp.
 Caragana - Caragan spp.
 Cherry - Prunus spp.
 Elm - Ulmus spp.
 Lilac - Syringa spp.
 Maple - Acer spp.
 Mountain Ash - Sorbus spp.
 Poplar - Populus spp.
 Russian Olive - Elaeagnus spp.
 Willow - Salix spp.

Coniferous

Fir - Abies spp.
 Juniper - Junipus spp.
 Pine - Pinus spp.
 Spruce - Picea spp.
 Yew - Taxus spp.

SPRAY MAY CONTACT MATURE BROWN BARK ONLY. Avoid contact with non-target plants, foliage, or suckers of established plantations.

NOTE: This product is not recommended for use as an over-the-top broadcast spray in forest tree nurseries or in Christmas tree plantations. Application in such sites should be limited to directed sprays. **DO NOT** treat Christmas tree plantations in the year of anticipated harvest.

TREE, VINE and BERRY CROPS

This product is recommended for annual and perennial weed control for site preparation prior to transplanting tree and vine crops.

Applications may be made with boom equipment, shielded sprayers, hand-held and high volume orchards guns. See the "Mixing and Application Equipment Information" section of this label.

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual or pre-emergent weed control. For subsequent weed control, follow a program using residual herbicides or use repeated applications of this product. Do not apply more than 35 litres of this product per hectare per year. Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

SELECTIVE EQUIPMENT

WIPER APPLICATORS

This product may be applied with a wiper applicator, after dilution and thorough mixing with water, to listed weeds in any industrial, tree planting and non-crop site specified on this label.

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution. Wiper applicators include either roller or wick devices which physically wipe appropriate concentrations or amounts of this product directly onto the weed. Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Performance may be improved by reducing speed in areas of heavy weed infestations to insure adequate wiper saturation. Best results may be obtained if 2 applications are made in opposite directions.

AVOID CONTACT WITH DESIRABLE VEGETATION. Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that wiper contact point is at least 5 cm above the desirable vegetation. Droplets or foam of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction. Mix proper amount of Glyphosate Water Soluble Herbicide with water in a large container. Use this mixed solution in the wiper, wick or roller equipment.

Applications should be made when the weeds are a minimum of 15 cm above the desirable vegetation. Best results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in

dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. See the Weed Control tables in this label for recommended stage of growth for specific weeds.

NOTES

Maintain equipment in good operating condition. Avoid leakage or dripping onto desirable vegetation.

Adjust height of applicator to insure proper contact with weeds.

Keep wiping surfaces clean.

Maintain recommended roller RPM on roller applicators while in use.

Keep wiper material at proper degree of saturation with herbicide solution.

DO NOT use wiper equipment when weeds are wet.

DO NOT operate equipment at ground speeds below 4 and greater than 10 km/h. Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to insure good coverage of weeds.

Be aware that on sloping ground the herbicide solution may migrate, causing dripping on the lower end and drying on the upper end of the wiper applicator.

Variation in equipment design may affect weed control. With wiper applicators, the wiping material and its orientation must allow delivery of sufficient quantities of the recommended herbicide solution directly to the weed.

Care must be taken with all types of wipers to insure that the absorbent material does not become oversaturated, causing the herbicide to drip onto desirable vegetation.

Mix only the amount of solution to be used during a one-day period, as reduced activity may result from use of leftover solution.

With all equipment, drain and clean wiper parts immediately after using this product, by thoroughly flushing with water.

For Roller Applicators--Mix 0.5 to 1.0 L of this product in 10 L water to prepare a 5 to 10% solution. Roller speed should be maintained at 50 to 150 rpm.

For Wick or other Wiper Applicators--Mix 1 litre of this product in 2 litres of water to prepare a 33% solution.

NON-CROPLAND USES

NON-CROPLAND USES INCLUDE:

Industrial; recreational, rights-of-way, and public areas; turf grass renovation.

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

This product can be used to control annual and perennial weeds and woody brush and trees listed on this label in non-crop areas such as railroad, pipeline, highway, power and telephone rights-of-way; petroleum tank farms and pumping installations; roadsides; storage areas; lumberyards; fence rows; industrial plant sites; parking areas; school yards, parks, golf courses, other public areas; airports and similar industrial or non-crop areas.

NOTE: For all industrial, rights-of-way, recreational and public areas, repeat treatments may be necessary to control regeneration or new growth. When applied as recommended under the conditions described, this product will control weeds in noncropland areas as listed in the following table.

WEED CONTROL IN NON-CROPLAND AREAS WITH GLYPHOSATE WATER SOLUBLE HERBICIDE

WEEDS	GROUND APPLICATION††			COMMENTS
	BOOM APPLICATION		Hand Held High Volume Application % Solution	
	Rate † L / ha	Water Vol. † L /ha		
Annual grasses <u>and</u> broadleaves	2.25 - 3.5	50 - 100	1	Actively growing weeds
<u>Perennial Weeds</u>				
Quackgrass	2.5	50 - 300	1	Actively growing weeds.
	4.75 - 7.0	50 - 300	2	Add 0.5% v/v of a recommended surfactant when using water volumes greater than 150 L.
Canada Thistle (Bud Stage)	4.75 - 7.0	100 - 300	2	Higher rate for long term control and for heavy infestations.
Purple loosestrife	6.0	300-600	1 - 2 (or 33% for wiper application)	See section on purple loosestrife control for

Other Perennials	7.0 - 12	100 -300	2	application instructions Summer through fall is optimum
<u>Brush and Trees</u> Birch, Cherry, Poplar, Western Snowberry, Willow (suppression only)	3.0 - 6.0	100 – 300	1 – 2	Summer through early fall Late Summer through fall. Fall is optimum.
Maple, Raspberry/ Salmonberry, Alder	6.0	100 - 300	2	
<u>Turf Renovation</u> Annual and Perennial Weeds	2.5 - 12.0	100 - 300	1 - 2	Use higher end of the rate range for perennials
<u>Roadside Vegetation</u> (1-2 m wide along shoulders) Annual Weeds (refer to Tank-Mix sections on product labels for specific weeds controlled)	1) 0.75-1.0 + 1.25-2.5L DyCleer®480 or 2) 0.75-1.0 + 0.30 L DyCleer 480 + 1.2L 2,4-D amine 500	25-150	-	Refer to annual weed control table in this label for appropriate product rate for specific weeds For 2,4-D amine formulations with a different guarantee, adjust the rate accordingly No application to standing water.
<u>Residual Control</u> Annual and Perennial Weeds (the simazine component of this tank mixture will provide season long control of most germinating broadleaf weeds)	2.5 - 12 + a) 2.5-5.6 kg Simazine 80W or +	200-400	-	Do not apply to coarse, sandy or gravelly soil. One application per year. Use according to the most restrictive label directions for each product in the mixture.

and grasses. It may also provide post emergent activity on certain annual weeds)	b) 4.0-9.0 L Simadex® Flowable			For other simazine Formulations registered for industrial/ noncropland areas, use equivalent rates; i.e. 2.0-4.5 kg simazine/ha
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† For more information on rates, water volumes and application, refer to the "Annual and Perennial Weed Control" sections of this booklet.

†† Aerial application may be used for brush and tree control in Industrial rights-of-way only. See aerial application section.

DyCleer® is a registered trademark of BASF Ltd.

Simadex® is a registered trademark of AgrEvo Ltd.

APPLICATION INFORMATION FOR NON-CROPLAND USES

Foliar Applications

Spray coverage should be uniform and complete. Do not spray to the point of runoff. Do not allow spray drift to contact desirable vegetation as severe injury or destruction may occur. For woody brush and trees, early season applications may take 30-45 days for symptoms to develop on target species. Late season application may be made to species that have some autumn colours provided no major leaf drop has occurred. Control will be observed the following spring.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURFGRASSES, TREES, SHRUBS, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

This product does not provide residual weed control. For subsequent 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.

GROUND APPLICATIONS: For all non-cropland uses

For woody brush and trees, apply 3 to 6 L of this product per hectare. Use ground boom or boomless, or mist blower equipment, or apply as a 1 to 2% solution using hand-held high volume equipment. Apply as directed in the recommended volume of clean water to foliage of actively growing vegetation. Use the 6 L/ha rate for Maple, Alder and Willow† species, as well as for hard to control perennial weed species. († Suppression only)

Spray coverage should be uniform and complete. Do not spray to the point of runoff. Do not allow spray drift to contact desirable vegetation as severe injury or destruction may occur. If weeds have been mowed or tilled, do not treat until regrowth has reached the recommended stages.

DO NOT APPLY UNDER WIND OR OTHER CONDITIONS THAT ALLOW DRIFT.

AERIAL APPLICATIONS: For industrial rights-of-way only**DIRECTIONS FOR USE**

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides*.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Application Rates

For woody brush and trees, apply 3 to 6 L of this product per hectare. Use the 6 L/ha rate for Maple, Alder and Willow† species, as well as for hard to control perennial weed species. Use the recommended rates of this herbicide in 30 to 100 L of water per hectare. As density of vegetation increases, spray volume should be increased within the recommended range to ensure complete coverage. († Suppression only)

Product-Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call IPCO at 1-204-233-3461, or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following: Volume: Apply the recommended rate in a spray volume of 30-100 L/ha. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. **PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE.** The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38412 may prevent corrosion.

PURPLE LOOSESTRIFE CONTROL

- DO NOT TREAT PLANTS OVER OPEN WATER. Glyphosate Water Soluble Herbicide is not registered for direct application to bodies of water.
- Treat when plants are actively growing at or beyond the bloom stage. If using hand-held equipment, spray-to-wet.
- For wiper applications, see specific section in this label.
- Where feasible, remove flower heads before treatment to ensure prevention of seed set.
- For large (>1.6 ha) monocultures of loosestrife, work from the periphery inward in successive years to allow competing vegetation to invade the treated area.
- A long-term control strategy should include measures to control both established plants and seedlings. Sprayed areas should be monitored to determine the appropriate follow-up management. Early detection and treatment of second and third generation seedlings is important to prevent re-infestation of purple loosestrife. Desirable native plant communities will then have a chance to become re-established.

Selective Application for All Non-Cropland Uses

Selective equipment such as **WIPER** and **ROLLER** applicators can be used to control emerged weeds in non-crop areas and tree plantings. See "Selective Equipment" for more information.

Turfgrass

When applied as directed, under conditions described, this product controls most existing vegetation prior to turfgrass establishment or renovation. Apply this product at rates specified in the "Weed Control in Non-Cropland Areas" section. **DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT.** Where existing vegetation is growing in a field or unmowed situation, apply this product to actively growing weeds at the stages of growth given in the "Weeds Controlled" section of this booklet. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray and proper translocation into underground plant parts. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts. For maximum control of existing vegetation, delay establishment to determine if regrowth from escaped underground plant parts occurs. When repeat treatments are necessary, sufficient weed regrowth must be attained prior to application. Desirable turfgrasses may be established following the above procedures. **AVOID ALL CONTACT WITH DESIRABLE VEGETATION IN THE VICINITY OF THE RENOVATION OR ESTABLISHMENT AREA.**

Injection Applications - for all non-cropland uses

Woody vegetation may be controlled by injection application of this product. Apply using suitable equipment, which must penetrate into living tissue, at a rate of at least 0.5 mL (either undiluted or 1:1 with water) per 5cm tree diameter at breast height (DBH). The cuts should be spaced evenly around the tree and below all major branches. Application may be made at any time of year, except when cold temperatures prevent adequate penetration of injection equipment, or in the spring during periods of heavy sap flow. Control of tree species with tree diameters greater than 20 cm may not be acceptable at this rate.

Total control may not be evident for 1-2 years following treatment.
A partial list of species controlled includes:

ALDER

Alnus spp.

BIRCH

Betula spp.

CEDAR

Thuja spp.

CHERRY

Prunus spp.

DOUGLAS FIR

Pseudotsuga spp.

HEMLOCK

Tsuga spp.

MAPLE†

Acer spp.

PINE

Pinus spp.

POPLAR

Populus spp.

WILLOW

Salix spp.

†This treatment may only provide suppression of Big-Leaf Maple. Late fall applications will provide optimum suppression of Big- Leaf Maple

Cut Stump Application

Woody vegetation may be controlled by the application of this product to freshly cut stumps to prevent regrowth. Because the treatment uses a concentrated solution, application must be made using low-pressure equipment, e.g., squirt bottle or similar device. This product must be applied immediately to the surface of the freshly cut stump i.e within 5 minutes for optimum control at the prescribed rates. Only the cambial tissues of the cut surface should be treated. Apply the herbicide solution at a rate equivalent to at least 0.5 mL product for every 5cm DBH. Do not cover the remaining area nor any exposed roots, as this product does not penetrate bark well. This treatment may be used at any time of year, except during periods of heavy sap flow or when low temperatures prevent solution application due to freezing. A water soluble colourant may be added to the solution as a means of indicating which surfaces have been treated. Total control may not be evident until 1-2 years after treatment.

See the Injection Applications section of this label for a partial list of species controlled.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Glyphosate Water Soluble Herbicide is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to Glyphosate Water Soluble Herbicide and other Group 9 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 Glyphosate Water Soluble Herbicide or other Group 9 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 Interprovincial Cooperative at 1-204-233-3461.

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 any 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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