2021-01-20
2020-1186

GROUP	9	HERBICIDE

Roundup WeatherPRO®

SOLUTION

COMMERCIAL

WARNING

POISON

EYE AND SKIN IRRITANT

REGISTRATION NO. 33653 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Glyphosate, 540 grams acid equivalent per litre, present as potassium salt.

Water Soluble Herbicide for non-selective weed control

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING.

NET CONTENTS: 6.7 LITRES to Bulk

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. S.E.
Calgary, Alberta T2C 3G3

Product Information: 1-888-283-6847
www.es.bayer.ca

In case of spills, poisoning or fire, telephone emergency response number collect 1-800-334-7577 (24 hours a day).

PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN.
HARMFUL IF SWALLOWED.
HARMFUL IF INHALED.
CAUSES EYE AND SKIN IRRITATION.
Avoid contact with eyes, skin or clothing.
Avoid inhaling spray mist.

Wear a long-sleeved shirt and long pants during mixing, loading, application, clean-up and repair. In addition, wear goggles or a face shield and chemical-resistant gloves during mixing and loading, clean-up and repair.
Do not enter or allow entry into treated areas until sprays have dried.

FIRST AID
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 center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.
If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.
If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
If in eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

TOXICOLOGICAL INFORMATION
Treat symptomatically. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

ENVIRONMENTAL PRECAUTIONS

- 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, fiberglass, 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.

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

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

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

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

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

RETURNABLE CONTAINERS:
Do not reuse this container for any 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.

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Roundup WeatherPRO®

1.0 PRODUCT DESCRIPTION

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

NON-CROPLAND USES INCLUDE:

Industrial, military bases, recreational, rights-of-way, and public areas.

Not for relabelling or repackaging.

2.0 EMERGENCY NUMBERS

In case of spills, poisoning or fire, telephone emergency response number collect 1-800-334-7577 (24 hours a day).

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

2.1 INFORMATION

For additional information on this product, call Bayer CropScience Inc. at: 1-888-283-6847.

3.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.
HARMFUL IF SWALLOWED.
HARMFUL IF INHALED.
CAUSES EYE AND SKIN IRRITATION.
Avoid contact with eyes, skin or clothing.
Avoid inhaling spray mist.

Wear a long-sleeved shirt and long pants during mixing, loading, application, clean-up and repair. In addition, wear goggles or a face shield and chemical-resistant gloves during mixing and loading, clean-up and repair.
Do not enter or allow entry into treated areas until sprays have dried.

3.1 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. 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 the person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably 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.

3.2 TOXICOLOGICAL INFORMATION

Treat symptomatically. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

3.3 ENVIRONMENTAL PRECAUTIONS

- **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.

3.4 PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, 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.

3.5 STORAGE

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

3.6 DISPOSAL AND DECONTAMINATION

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

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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.

DIRECTIONS FOR USE

4.0 GENERAL INFORMATION

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

Observe buffer zones specified in section 5.3.

Roundup WeatherPRO, 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 section 7.1 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.

Rainfall occurring within 60 minutes of treatment may result in reduced weed control. 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.

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.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, Roundup WeatherPRO is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to Roundup WeatherPRO 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 Roundup WeatherPRO or other Group 9 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.

5.0 MIXING AND APPLICATION

5.1 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.

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

Clean sprayers 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.

DO NOT use human flaggers.

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 directions, temperature inversions, application equipment and sprayer settings.

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.

5.2 MIXING AND APPLICATION EQUIPMENT

MIXING WITH WATER

For ground, aerial or industrial type sprayers, fill the spray tank with one-half the required amount of water. Add the proper amount of herbicide as specified in section 7.1 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.

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.

TANK MIXING PROCEDURE

The following steps should be followed when adding tank mix partners, using a herbicide loading system or adding product directly into the tank:

1. Fill spray tank 3/4 full of water.
2. Start agitation and run for entire mixing and spraying operation.
3. Add required amount of the tank mix partner.
4. Flush herbicide loading tank and herbicide containers with water.
5. If using a herbicide loading system - ensure that the loading tank and lines to the pump are empty and flushed out with water before adding tank mix partner.
6. Add required amount of Roundup WeatherPRO.
7. Flush herbicide loading tank and herbicide containers with water.
8. If using a herbicide loading system - ensure that the loading tank and lines to the pump are flushed with water and empty before starting spray operation.

Always start and end the mixing and spraying operation with a clean system.

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 litres of clean water per hectare as a broadcast spray using no more than 275 kPa pressure. See section 7.1 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 section 7.1 for rates to control specific weeds.

BOOMLESS EQUIPMENT

For control of herbaceous weeds, woody brush and trees listed in the "Vegetation Controlled" section of this label using boomless equipment such as cluster nozzles-- Apply this product in 100-350 L of clean water per hectare as a broadcast spray using no more pressure than 275 kPa.

AERIAL EQUIPMENT

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric condition of the area and the application rates and conditions of this label. Label rates, condition and precautions are product specific. Read and understand the entire label before opening this product. Apply only at rate(s) recommended for aerial application on this label in 20 to 100 L of water per hectare unless otherwise directed on this label.

For aerial application in industrial, rights-of-way and military bases refer to section 7.5 of this label.

Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. As density of vegetation increases, spray volume should be increased within recommended range to ensure complete coverage.

Ensure uniform application -- to avoid streaked, uneven or overlapped application, use appropriate marking devices, or equivalent global positioning systems (GPS).

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 IS MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38412 may prevent corrosion.

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 do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. Do not spray during period of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when wind is blowing towards nearby sensitive crop, garden, terrestrial habitat (such as a shelter belt) or aquatic habitat.

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.

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

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

The field crew and mixer/loader 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 or drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

HAND HELD AND HIGH VOLUME EQUIPMENT
(use coarse sprays only)

For control of weeds and woody brush and trees listed in the "Vegetation Controlled" section (6.0) of this label using knapsack sprayers or high volume spraying equipment utilizing handguns or other suitable nozzle arrangements – Unless otherwise specified, make a 0.67 percent solution of this product in water (0.67 litres of this product in 100 litres of water) and apply to foliage of vegetation to be controlled. For best results, use a 1.34 percent solution (1.34 litres of this product in 100 litres of water) on harder to control perennials such as field bindweed, hemp dogbane, milkweed and Canada thistle.

Applications should be made on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to point of run-off. Handgun 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 7.8).

5.3 BUFFER ZONES

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.

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, 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).

Non-cropland systems		Maximum number of applications	Buffer Zones (metres) Required for the Protection of:	
			Aquatic habitats	Terrestrial habitats
Non-cropland system and ground boom application method				
Non-crop land and industrial uses: Industrial and rights of way areas, Recreational and public areas		3	1	3*
Non-cropland system and airblast application method (including mist blower)				
Non-crop land and industrial uses: Industrial and rights of way areas, Recreational and public areas		3	1	30*
Non-cropland system and aerial application method				
Non-crop land and industrial uses: rights of way areas and military bases only	Fixed wing	3	100	NR
	Rotary wing	3	60	NR

* Buffer zones for the protection of terrestrial habitats are not required for use on rights-of-way including railroad ballast, rail and hydro rights-of-way, utility easements, roads, and training grounds and firing ranges on military bases.
NR = Not Required

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 spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on Pesticide portion of Canada.ca web site.

6.0 VEGETATION 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 section 7.1. The following is a partial list of weeds controlled:

6.1 ANNUAL WEEDS

ANNUAL GRASSES

Barnyard Grass
Echinochloa crusgalli
Blue Grass (annual)
Poa annua
Crab Grass (large)
Digitaria sanguinalis
Crab Grass (smooth)
Digitaria ischaemum
Downy Brome-grass
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
Cow Cockle
Saponaria vaccaria
Eastern Black Nightshade
Solanum ptycanthum
Fleabane (Canada)
Erigeron canadensis
Flixweed
Descurainia sophia
Green Smartweed
Polygonum scabrum
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
Night-flowering Catchfly
Silene noctiflora
Pennsylvania Smartweed
Polygonum pensylvanicum
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
Velvetleaf
Abutilon theophrasti
Volunteer Canola (rapeseed)
Brassica spp.
Volunteer Flax
Linum spp.
Wild Buckwheat
Polygonum convolvulus
Wild Mustard
Sinapis arvensis
Wild Tomato
Solanum triflorum

6.2 PERENNIAL WEEDS

PERENNIAL GRASSES/SEDGES

Blue Grass (Canada)
Poa compressa

Blue Grass (Kentucky)
Poa pratensis

Brome Grass (smooth)
Bromus inermis

Cattail (common)
Typha latifolia

Common Reed
Phragmites australis

Cottongrass
Eriophorum chamissonis

Foxtail Barley
Hordeum jubatum

Quackgrass
Agropyron repens

Wire-Stemmed Muhly
Muhlenbergia frondosa

Yellow Nutsedge
Cyperus esculentus

PERENNIAL BROADLEAVED WEEDS

Alfalfa
Medicago spp.

Curled Dock
Rumex crispus

Milkweed (common)
Asclepias syriaca

Poison Ivy
Rhus radicans

Dandelion
Taraxacum officinale

Field Bindweed
Convolvulus arvensis

Hemp Dogbane
Apocynum cannabinum

Hoary Cress
Cardaria draba

Knotweed (Japanese)
Polygonum cuspidatum

Purple Loosestrife
Lythrum salicaria

Sow Thistle (perennial)
Sonchus arvensis

Thistle (Canada)
Cirsium arvense

Toad Flax
Linaria vulgaris

Wormwood (Absinth)
Artemisia absinthium

6.3 WOODY BRUSH AND TREES

Alder
Alnus spp.

Birch
Betula spp.

Broadleaved meadowsweet*
Spiraea latifolia

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.

Rhododendron (Canadian)
Rhododendron canadense

Sheep laurel*
Kalmia angustifolia

Snowberry (Western)
Symphoricarpos occidentalis

Sweet fern*
Comptonia peregrina

Willow**
Salix spp.

Withrod*
Viburnum cassinoides

* Apply as a 0.7 to 1.3% solution.
** Suppression only.

For perennial broadleaf weeds, apply when most weeds have reached early head or early bud stage of growth. For annual and perennial grasses, apply when most weeds are at least 20 cm in height (the 3-4 leaf stage of growth).

If herbaceous weeds have been mowed, tilled, or scarified, do not treat until regrowth has reached the recommended stages, as reduced effectiveness will result. Most herbaceous weeds 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. Allow 7 or more days after application before tillage or other soil disturbance. Repeat treatments may be necessary to control weeds regenerating from underground parts or seed.

7.0 NON-CROPLAND USES

INDUSTRIAL, MILITARY BASES, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREAS.

ALWAYS READ PRECAUTIONS, GENERAL INFORMATION AND MIXING AND APPLICATION SECTIONS (3.0, 4.0 AND 5.0) 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; military impact zones; artillery/small arms ranges; troop training areas; ammunition storage bunkers; 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, military bases, 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 non-cropland areas as listed in the following table.

7.1 APPLICATION RATES: WEED CONTROL ININDUSTRIAL, MILITARY BASES, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREAS WITH ROUNDUP WEATHERPRO

WEEDS	GROUND APPLICATION*			COMMENTS
	BOOM APPLICATION		HAND HELD HIGH VOLUME APPLICATION % SOLUTION	
	RATE (L/ha)	WATER VOL. (L/ha)		
Annual grasses and broadleaves	1.5–2.33	50-100	0.67	• Actively growing weeds.
Perennial Weeds				• Actively growing weeds.
Quackgrass	1.67 3.17-4.67	50-300 50-300	0.67 1.34	• Add 0.5% v/v of a recommended surfactant when using water volumes greater than 150 L (see section 7.3).
Canada Thistle (bud stage)	3.17-4.67	100-300	1.34	• Higher rate for long term control and for heavy infestations.
Purple Loosestrife	4	300-600	0.67-1.34 (or 22% for wiper application)	• See section 7.6 for instructions on purple loosestrife applications.

WEEDS	GROUND APPLICATION*			COMMENTS
	BOOM APPLICATION			
	RATE (L/ha)	WATER VOL. (L/ha)	HAND HELD HIGH VOLUME APPLICATION % SOLUTION	
Common Reed (*Phragmites australis*)	2.0-8.0	100-500	0.67 – 1.34	• See section 7.7 for instructions on common reed applications.
Other Perennials	4.67-8	100-300	1.34	• Summer through fall is optimum.
Brush and Trees Birch, Cherry, Poplar, Western Snowberry, Willow	2-4	100-300	0.67-1.34	• Summer through early fall (see section 7.2).
Maple, Raspberry/ Salmonberry, Alder, Pine, Douglas Fir	4	100-300	1.34	• Late summer through fall. • Fall is optimum.
Roadside Vegetation (1-2m wide along shoulders) Annual weeds (refer to tank mix sections on product labels for specific weeds controlled)	**1)** 0.5 – 0.67 + 1.25 – 2.5 L Vanquish Herbicide or **2)** 0.5 – 0.67 + 0.30 L Vanquish Herbicide + 1.2 L 2,4-D amine 500	25-150	-	• For 2,4-D amine formulations with a different guarantee, adjust the rate accordingly. • No application to standing water.
Residual Control Annual and perennial weeds (the simazine component of this tank mixture will provide season long control of most germinating broadleaf weeds and grasses. It	1.67 – 8 + 4.0 -9.0 L Simadex Flowable	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. • For other simazine formulations registered for industrial/ non-cropland areas, use equivalent rates;

WEEDS	GROUND APPLICATION*			COMMENTS
	BOOM APPLICATION		HAND HELD HIGH VOLUME APPLICATION % SOLUTION	
	RATE (L/ha)	WATER VOL. (L/ha)		
may also provide postemergent activity on certain annual weeds).				i.e., 2.0 – 4.5 kg simazine/ha.

*Aerial application may be used for brush and tree control in industrial and rights-of-way only. See "Aerial Application" (section 5.2 and 7.5).

Vanquish Herbicide is a registered trademark of Syngenta group company.
Simadex is a registered trademark of Bayer.

7.2 APPLICATION INFORMATION FOR INDUSTRIAL, MILITARY BASES, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREA USES

FOLIAR APPLICATIONS

Spray coverage should be uniform and complete. Do not spray to the point of run-off. 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 to 45 days for symptoms to develop on target species. Late season application may be made to species that have some autumn colors 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 TURF GRASSES, 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.

7.3 SURFACTANTS

The following is a list of approved surfactants for use with Roundup WeatherPRO for control of quackgrass for ground applications on industrial, rights-of-way, recreational and public areas uses when water volumes exceed 150 litres per hectare:

Agral® 90	Companion™
Ag Surf	Xiameter OFX-0309 Fluid

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

7.4 GROUND APPLICATIONS:
For all Industrial, Military Bases, Rights-of-Way, Recreational and Public Area Uses

For the control of annual and perennial weeds, woody brush and trees, apply 2 to 8 litres of this product per hectare (refer to Section 7.1 for specific rates). Use ground boom or boomless, or mist blower equipment, or apply as a 0.67 to 1.34 percent 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 4 litres per hectare rate for Maple, Alder, Willow*, Pine and Douglas Fir 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 run-off. 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.

7.5 AERIAL APPLICATIONS:
For Industrial, Rights-of-Way and Military Bases Only

For the control of annual and perennial weeds, woody brush and trees, apply 2 to 8 litres of this product per hectare (refer to Section 7.1 for specific rates). Use the 4 litres per hectare rate for Maple, Alder, Willow*, Pine and Douglas Fir species as well as for hard to control perennial weed species (*: suppression only). Use the recommended rates of this herbicide in 20 to 100 litres of water per hectare when application rates are less than 4 litres of product per hectare. When application rates exceed 4 litres of product per hectare, use 50 to 100 litres of water per hectare. This product may also be applied by aerial application for the control of annual and perennial weeds, woody brush and trees in artillery impact zones on military bases.

As density of vegetation increases, spray volume should be increased within the recommended range to ensure complete coverage.

Coarse sprays are less likely to drift; therefore do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the air stream and do not increase spray volume by increasing nozzle pressure.

Ensure uniform application – To avoid streaked, uneven or overlapped application, use appropriate marking devices, or equivalent electronic positioning systems (GPS).

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.

7.6 PURPLE LOOSESTRIFE CONTROL

- DO NOT TREAT PLANTS OVER OPEN WATER. Roundup WeatherPRO 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 section 7.8.

- 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.

7.7 Common Reed (*Phragmites australis*)

- DO NOT TREAT PLANTS OVER OPEN WATER. Roundup WeatherPRO is not registered for direct application to bodies of water.

- For partial control and for best results, treat in late summer or early fall when plants are actively growing and in full bloom Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.
- For higher volumes (i.e, 150–300 L/ha) an approved surfactant should be added at 0.5 L per 100 L of clean water (0.5% v/v).
- For large monocultures of common reed, 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 common reed. Desirable native plant communities will then have a chance to become re-established.
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7.8 SELECTIVE APPLICATION FOR ALL INDUSTRIAL, MILITARY BASES, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREA USES

Selective equipment such as WIPER and ROLLER applicators can be used to control emerged weeds in non-crop areas.

SELECTIVE EQUIPMENT - WIPER APPLICATORS

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

This product may be applied with a wiper applicator, after dilution and thorough mixing with water, to listed weeds in any industrial and non-crop site specified on this label. See section 7.1.

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 centimetres above the desirable vegetation. Droplets or foam of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction.

Applications should be made when the weeds are a minimum of 15 centimetres 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.

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 kilometres per hour. 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 over-saturated, causing the herbicide to drip onto desirable vegetation.
- With all equipment, drain and clean wiper parts immediately after using this product, by thoroughly flushing with water.

For Roller Applicators – Mix 0.33 to 0.67 litres of this product in 10 litres water to prepare a 3 to 7 percent solution. Roller speed should be maintained at 50 to 150 RPM.

For Wick or other Wiper Applicators – Mix 0.67 litres of this product in 2 litres of water to prepare a 22 percent solution.

8.0 INJECTION APPLICATIONS -- FOR ALL NON-CROPLAND USES: INDUSTRIAL, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREA USES

8.1 WOODY VEGETATION

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 0.33 millilitres (either undiluted or 1:1 with water) per 5 centimetres 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 centimetres may not be acceptable at this rate.

Total control may not be evident for 1 to 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 Bigleaf Maple. Late fall applications will provide optimum suppression of Bigleaf Maple.

8.2 HOLLOW STEM INJECTION

This product may be applied through hand-held injection devices that deliver specified amounts of this product into targeted hollow-stem plants growing in any site specified on this label. Weeds should be actively growing at application.

For control of the following hollow stem plants, follow the use instructions below:

A partial list of species controlled includes:

Hogweed, Giant (*Heracleum mantegazzianum*)
Inject one leaf cane per plant at about chest height but below a node on the stem with 10 mL of a 5% v/v solution of this product.

Knotweed, Bohemian (*Fallopia bohemica*)
Inject 5 mL per stem of this product into each cane between the second and third internode.

Knotweed, Giant (*Fallopia sachalinenis*)
Inject 5 mL per stem of this product into each cane between the second and third internode.

Knotweed, Japanese (*Fallopia japonica*)
Inject 5 mL per stem of this product into each cane between the second and third internode.

9.0 CUT STUMP APPLICATION -- FOR ALL NON-CROPLAND USES: INDUSTRIAL, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREA USES

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 0.33 millilitres product for every 5 centimetres 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 to 2 years after treatment.

See "**Injection Applications**" (section 8.1) of this label for a partial list of species controlled.