



Vantage™ XRT

Herbicide

GROUP	9	HERBICIDE
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Water soluble herbicide for nonselective weed control in non-cropland areas

INDUSTRIAL

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

GUARANTEE: Glyphosate (present as dimethylamine salt) 480 g/L
Solution

REGISTRATION NO. 29994 PEST CONTROL PRODUCTS ACT

**CAUTION: EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

Net Contents 7.5 L, 10 L, 115 L, 450 L and Bulk

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PRECAUTIONS

May irritate eyes and skin

Avoid contact with eyes or with skin

KEEP OUT OF REACH OF CHILDREN

Wear long sleeved shirt, long pants and chemical resistant gloves during mixing, loading, application, clean up and repair. In addition, wear goggles or a face shield during mixing and loading.

For non-crop uses: Do not enter or allow entry into treated areas during the restricted-entry interval (REI) of 12 hours or until sprays have dried. Workers who must enter fields within this time period should wear a long-sleeved shirt, long pants and chemical-resistant gloves.

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

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 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 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.

TOXICOLOGICAL INFORMATION

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

Avoid direct applications to any body of water. Do not contaminate water by disposal of waste or cleaning of equipment.

STORAGE

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

DISPOSAL

Recyclable Containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at 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 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.

DIRECTIONS FOR USE

GENERAL INFORMATION

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

Overspray or drift to important wildlife habitats such as bodies of water, wetlands (e.g., sloughs), shelterbelts, woodlots and other cover on the edges of fields frequented by wildlife, should be avoided. Leave a 15 meter buffer zone between the last spray swath and the edge of any of these habitats.

Vantage XRT 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.

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. 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. Unless otherwise specified, make a 0.75% solution of this product in water (0.75 litre of this product in 100 litres of water) and apply to foliage of vegetation to be controlled. For best results, use a 1.5% solution (1.5 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 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 Uses: Aerial application can be used for rights-of-way and military bases only. Refer to "AERIAL APPLICATIONS: For industrial rights-of-way and military bases 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

Barnyard Grass

Echinochloa crusgalli

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

Saponaria vaccaria

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

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 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 Canola

Brassica spp

Volunteer Flax

Linaria 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

Yellow Nutsedge

Cyperus esculentus

Wire-stemmed Muhly

Muhlenbergia frondosa

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

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 non-cropland areas as listed in the following table.

WEED CONTROL IN NON-CROPLAND AREAS WITH VANTAGE XRT HERBICIDE

WEEDS	GROUND APPLICATION			COMMENTS
	BOOM APPLICATION		Hand Held High Volume Application % Solution	
	Rate † L / ha	Water Vol. † L /ha		
<u>Annual grasses and broadleaves</u>	1.69 – 2.63	50 - 100	1	Actively growing weeds
<u>Perennial Weeds</u>				
Quackgrass	1.88	50 - 300	1	Actively growing weeds
	3.56 –5.25	50 - 300	2	Add 0.5% v/v of a recommended surfactant when using water volumes greater than 150 L.
Canada Thistle (Bud Stage)	3.56 - 5.25	100 - 300	2	Higher rate for long term control and for heavy infestations See section on purple loosestrife control for application instructions
Purple loosestrife	4.5	300-600	0.75 – 1.5 (or 25% for wiper application)	Summer through fall is optimum
Other Perennials	5.25 – 9	100 –300	2	
<u>Brush and Trees</u>				
Birch, Cherry, Poplar, Western Snowberry, Willow	2.25 – 4.5	100 – 300	1 - 2	Summer through early fall
Maple, Raspberry/ Salmonberry, Alder	4.5	100 – 300	2	Late Summer through fall Fall is optimum

<u>Turf Renovation</u> Annual and Perennial Weeds	1.88 – 9.0	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) 0.56-0.75 + 1.25-2.5L DyCleeer® Agricultural Herbicide or 2) 0.56-0.75 + 0.30 L DyCleeer Agricultural Herbicide + 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 and grasses. It may also provide post-emergent activity on certain annual weeds)	1.88 – 9 + 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; i.e. 2.0-4.5 kg simazine/ha

† 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 and military bases only. See aerial application section.

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Simadex® is a registered trademark of Bayer Crop Science

APPLICATION INFORMATION FOR NON-CROPLAND 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 30-45 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 2.25 to 4.5 L of this product per hectare. Use ground boom or boomless, or mist blower equipment, or apply as a 0.75 to 1.5% 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 4.5 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.

AERIAL APPLICATIONS: For industrial rights-of-way and military bases 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 device or equivalent electronic positioning systems (GPS). The use of a spotter plane is recommended.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even 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 2.25 to 4.5 L of this product per hectare. Use the 4.5 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)

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.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, obtain technical advice from the distributor or your provincial agricultural representative. Application of this product must meet and or conform to the following:

Volume: Apply the recommended rate in a spray volume of 30 to 100 litres per hectare. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Drift is increased under certain meteorological conditions. Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 16 km/hour at flying height at the site of application. Do not use a boom height greater than 10 metres above canopy. Only nozzles producing coarse droplet sizes (i.e., ASAE droplet size categories with VMD \geq 385.2 μ m) should be used for aerial application of Vantage XRT Herbicide to rights-of-way and military bases.

This product is toxic to fish. For the protection of non-target habitats, overspray or drift to sensitive habitats must be avoided. A buffer zone is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats such as lakes, rivers, streams, sloughs, ponds, coulees, prairie potholes, creeks, marshes, reservoirs, and wetlands. See the following table for appropriate aquatic buffer zones. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

Buffer Zones for Aerial Application of Vantage XRT Herbicide

Aircraft	Coarse ASAE (VMD = 385.2 µm) Release height from aircraft ≤ 10 m	
	One application per season	Two applications per season (i.e., buffer zones indicated below are for the 2 nd application)
Fixed Wing	50 m	80 m
Helicopter	20 m	35 m

For aerial application for industrial rights-of-way, no buffer zones are required for vegetation. However, to protect commercially or environmentally important plants, appropriate buffer zones are required.

PURPLE LOOSESTRIFE CONTROL

- DO NOT TREAT PLANTS OVER OPEN WATER. Vantage XRT 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 on 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. 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 regrowth must be attained prior to application. Desirable turfgrasses may be established following the above procedures.

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 0.38 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 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 0.38 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 the list of species controlled.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Vantage XRT Herbicide is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to Vantage XRT 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 Vantage XRT 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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or at www.dowagro.ca.

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

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Specimen label notes:

Initial printing