

(Container)



Garlon™ XRT

Herbicide

GROUP	4	HERBICIDE
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For the control of undesirable woody plants and annual and perennial broadleaved weeds on pastures and rangelands, in non-crop areas such as rights-of-way, military bases and industrial sites, and in forest and woodland management areas. Garlon XRT Herbicide may be applied by remotely piloted aircraft systems (RPAS) for control of willow, poplar and aspen tree species growing on non-crop areas such as rights of ways, and industrial sites.

COMMERCIAL + RESTRICTED

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

ACTIVE INGREDIENT: triclopyr, present as butoxyethyl ester 755 g/L
Emulsifiable Concentrate

REGISTRATION NO.: 28945 PEST CONTROL PRODUCTS ACT

WARNING – SKIN AND EYE IRRITANT
POTENTIAL SKIN SENSITIZER

NET CONTENTS: 10 L-bulk

Corteva Agriscience Canada Company

Suite 240, 115 Quarry Park Rd. SE

Calgary, Alberta

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1-800-667-3852

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PRECAUTIONS

WARNING- SKIN AND EYE IRRITANT

KEEP OUT OF REACH OF CHILDREN

Causes eye irritation. DO NOT get in eyes. May irritate the skin. Avoid contact with skin. Potential skin sensitizer. Wash thoroughly after handling. Avoid breathing vapour or spray mist. Where frequent inhalation of spray mist cannot be avoided, occupational exposure to pesticides can be reduced by use of a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides. Avoid contact with treated foliage and other contaminated surfaces while wet.

When spraying using ground application equipment, follow a “walk in, spray out” pattern to avoid contact with treated brush. Take precautions to avoid spray drift. Direct spray outward and away from self. Avoid overhead spraying when using handheld equipment. Select spray nozzle types and pressures to minimize drift potential.

Practice good personal hygiene. At all times when handling herbicide concentrate or applying the dilute mixture, plan events in such a way as to minimize personal exposure. Locate wash stations with an adequate supply of fresh water on work vehicles. Wash thoroughly with soap and water after handling and before eating or smoking. Bathe or take a hot shower after work using plenty of soap.

To minimize exposure when handling and applying Garlon XRT Herbicide:

- Read and follow directions in the Protective Equipment Requirements and Precautions sections on the label.
- Applicators should receive training on how to minimize personal exposure while applying high volume stem-foliage applied herbicides, including the “walk in, spray out” technique and on how to minimize contact with treated foliage.
- **For agricultural uses (pasture and rangeland): DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.
- **For non-crop uses: DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 18 days to perform scouting activities. For all other post-application activities, DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours or until sprays have dried.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

PROTECTIVE EQUIPMENT REQUIREMENTS

Tasks	PPE/Engineering Controls
Mixing, loading, clean-up and repair, handling Remotely Piloted Aircraft Systems (RPAS) after application (eg. battery changing, refilling, transporting, cleaning)	<p>Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves (nitrile or neoprene), chemical-resistant headgear, protective eyewear (goggles or face shield), socks and chemical-resistant footwear (rubber). Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large-brimmed waterproof hat and hood with sufficient neck protection.</p> <p>Do not allow the pilot to mix chemicals to be loaded onto the conventionally piloted aircraft. The pilot is allowed to load premixed chemicals with a closed system.</p>
<p>Application using conventionally piloted aerial equipment</p> <p>Application using RPAS and RPAS visual observer</p> <p>Application using ground equipment, handheld equipment</p>	<p>Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves (nitrile or neoprene), chemical-resistant headgear, socks and chemical-resistant footwear (rubber). Gloves are not required when piloting RPAS. Gloves and headgear are not required during application within a closed cab/cockpit . Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large-brimmed waterproof hat and hood with sufficient neck protection.</p> <p>For handheld application, wear eye, head and respiratory protection when applying above waist height, including overhead.</p> <p>It is desirable that the pilot have communication capabilities at each treatment site at the time of application.</p>

Remove clothing contaminated with concentrate promptly and wash before reuse. Exercise care in removal of contaminated clothing to avoid secondary skin contact. Segregate contaminated articles and launder separately from other clothing using a double rinse. Leather articles such as boots, belts or watchbands should be destroyed if contaminated by concentrate.

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

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE. Do not use or store near heat or open flame.

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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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

The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

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

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product is highly toxic to fish, aquatic plants and aquatic invertebrates and is not labelled for application to water surfaces. Keep out of wetlands, lakes, ponds, streams, rivers and wildlife habitats at the edge of bodies of water. Do not contaminate water by cleaning of equipment or disposal of wastes. This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Sensitive terrestrial and aquatic habitat must be protected. A spray buffer zone should be maintained to avoid overspray and drift into these habitats (refer to Ground Application and/or Conventional Piloted Aircraft (Aerial) Application sections for the spray buffer zone requirements and spray drift control recommendations). Examples of habitat which may border treated areas are shelterbelts, wetlands (e.g., potholes), sloughs, dry slough borders, non-target wooded areas and vegetated areas adjacent to water.

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 filter strip between the treated area and the edge of the water body.

STORAGE

Store this product away from food and feed. Do not contaminate water, food or feed by storage or disposal. Store above -2°C or agitate container before use.

DISPOSAL

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

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

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

(Booklet)



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Sensitive terrestrial and aquatic habitat must be protected. A spray buffer zone should be maintained to avoid overspray and drift into these habitats (refer to Ground Application and/or Conventional Piloted Aircraft (Aerial) Application sections for the spray buffer zone requirements and spray drift control recommendations). Examples of habitat which may border treated areas are shelterbelts, wetlands (e.g., potholes), sloughs, dry slough borders, non-target wooded areas and vegetated areas adjacent to water.

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Avoid application when heavy rain is forecast.

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GENERAL INFORMATION

Garlon XRT Herbicide is recommended for the control of undesirable woody plants and annual and perennial broadleaved weeds in pastures and rangelands; in non-crop areas, including: rights-of-way, electrical power lines, communication lines, pipelines, roadsides and railroads, fencerows and around farm buildings, military bases, industrial, manufacturing and storage sites; and in forest and woodland management areas (refer to "RESTRICTED USE CONVENTIONAL PILOTED AIRCRAFT (AERIAL) APPLICATION FOR FOREST MANAGEMENT AREAS (GREATER THAN 500 HECTARES) AND WOODLAND MANAGEMENT AREAS (500 HECTARES OR LESS)").

Among the woody plants controlled at the lower rate are:

alder	elderberry	pinus*
ash	elm*	poplar
aspen	hawthorn	red maple*
basswood	hickory	raspberry*
beech	hop-hornbeam	sassafras
birch	honey locust*	sumac
blackberry	locust	sycamore
buckthorn	maples	tamarack
cherry*	mulberry	wild rose
chokecherry*	oaks*	willow
cottonwood	poison oak	witchhazel
		Tree of Heaven ²
dogwood	Scotch broom ¹	Tamarix (Tamarisk/salt cedar) ³

*These species may require treatment at the higher rate and may need to be retreated the following year, particularly if the original treatment was made at the lower rate.

¹For scotch broom control, use broadcast foliar, basal bark or cut stump applications only

²For tree-of-heaven control, use either basal bark or cut stump applications only

³For Tamarix (tamarisk/salt cedar) control, use only basal bark treatment

Among the annual and perennial broadleaved weeds controlled are:

burdock	field bindweed	smooth bedstraw
chicory	lamb's-quarters	vetch
curled dock	ragweed	wild lettuce
dandelion	smartweed	*dog strangling vine

* Suppression at 2.5 L/ha and control at 5 L/ha when applied with Gateway Adjuvant at 0.375% v/v

GENERAL USE PRECAUTIONS

- Do not apply this product in a manner inconsistent with the label.
- Do not apply Garlon XRT Herbicide directly to, or otherwise permit it to come into direct contact with desirable crops or other desirable broadleaved plants or non-target species and do not permit spray mists containing Garlon XRT Herbicide to drift onto them.

Avoid Spray Drift

Apply only when there is little or no hazard from spray drift. Small quantities of the spray, which may not be visible, may seriously injure susceptible crops and damage sensitive non-target habitat. A method must be used to detect air movement, lapse conditions or temperature inversions (stable air) such as the use of balloons or a continuous smoke column at or near the spray site or a smoke generator on the spray equipment. If the smoke develops into layers or indicates a potential for hazardous spray drift, DO NOT SPRAY.

PREHARVEST/GRAZING INTERVALS

Treated areas may be grazed by livestock or harvested for livestock feed provided that the following intervals are adhered to:

Grazing or harvesting green forage

1. Lactating dairy animals
 - a) Up to 3 L/ha: withhold lactating dairy animals from consuming treated green forage for 14 days following treatment
 - b) 3 to 5 L/ha: withhold lactating dairy animals from consuming treated forage for 60 days following treatment.
2. Other livestock
 - a) Up to 3 L/ha: no grazing restriction.
 - b) 3 to 5 L/ha: do not graze or harvest green forage from treated area for 14 days following treatment.

NOTE : If less than 25% of a grazed area is treated, there is no grazing restriction (for other livestock only).

Haying (harvesting of dried forage)

1. Lactating dairy animals
 - a) For treatments up to 5 L/ha do not feed lactating dairy animals hay which had been harvested within 60 days of treatment.
2. Other livestock
 - a) Up to 3 L/ha: do not harvest for 7 days following treatment.
 - b) 3 to 5 L/ha: do not harvest hay for 14 days following treatment.

Slaughter Withhold

Withdraw livestock from grazing treated grass or consumption of treated hay at least 3 days prior to slaughter.

DIRECTIONS FOR USE

General

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.

For best results, applications of Garlon XRT Herbicide should be made when woody plants and weeds are actively growing. Use higher rates when hard-to-control species such as ash, chokecherry, elm, maple (other than vine or big leaf), oaks or pine are present. If lower rates are used on hard-to-control species, resprouting may occur and retreatment may be necessary the following year.

Garlon XRT Herbicide can be applied alone or with Gateway Adjuvant at the rate of 0.375% by volume (375 mL per 100 L of water). See Gateway Adjuvant label for a full list of recommended rates. Inclusion of Gateway Adjuvant in the spray solution with Garlon XRT Herbicide will provide improved and more consistent control.

When using a drift control agent, follow the manufacturer's directions for the correct mixing sequence.

Ground Application

Consult with the appropriate provincial/territorial authorities about use permits and the establishment of spray buffer zones.

Use Precautions

Garlon XRT Herbicide is not registered for application to water surfaces including lakes, ponds and streams and is highly toxic to fish, aquatic plants and aquatic invertebrates. Do not overspray such areas. In order to reduce the hazard of drift to non-target plants, aquatic species or sensitive habitat, ensure that appropriate spray buffer zones are maintained and refer to the section Spray Drift Control.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and parks is minimal.

Do not use this product as a broadcast foliar spray in residential areas. Residential areas are defined as sites where bystanders including children may be potentially exposed during or after spraying. This includes around homes, schools, parks, playgrounds, playing fields, public buildings or any other areas where the general public including children could be exposed.

Do not use this product more than once per year.

Spray Drift Control

The potential for spray drift with ground broadcast applications can be reduced by:

- Apply a coarse spray using large droplet producing nozzle tips. Do not apply with cone-type insecticide or other nozzles that produce a fine droplet spray.
- Use of Radiarc or Nalco-Trol or an equivalent drift control system or additive.
- Keep the spray boom as low as possible.
- Use a spray pressure no greater than is required to obtain a proper spray pattern for adequate plant coverage.
- For ground application, do not apply Garlon XRT Herbicide when wind velocity and direction pose a risk of spray drift. Apply when wind speed is low. For conventional piloted aircraft application (aerial application), please refer to "Use Precautions" for appropriate spray buffer zones under "Restricted Use."
- If a spray thickening agent is used, follow all use directions and precautions on the product label. When using a power sprayer and handgun, direct sprays no higher than the tops of the target plants.

GROUND EQUIPMENT APPLICATIONS

Single Stem Foliar

For control of woody plants up to 2.5 m in height, use Garlon XRT Herbicide at rates of 2.5 to 5 L in enough water to make 1000 L of spray solution. Use the higher rate for late summer application when growth rates are reduced or when hard-to-control species are present. Spray brush to the point of runoff. Coverage should be thorough to wet all foliage. To minimize spray drift do not use pressures exceeding 1400 kPa at the spray nozzle. Direct the spray away from crops or desired non-target vegetation. Use of a drift control system is suggested to minimize spray drift. For woody plants exceeding 2.5 m in height cut and spray regrowth or use one of the basal application methods.

Low Volume Foliar

For control of woody plants up to 2.5 m in height use this technique with knapsack or backpack sprayers equipped with flat fan or solid cone nozzles. Power sprayers and handguns may also be used. For control of woody plants, mix 0.6 to 3 L of Garlon XRT Herbicide in enough water to make 100 L of spray solution. Use of a rate in the upper end of the recommended range is suggested for control of basal sprouting and root suckering species and for tall, dense brush. Direct the spray solution to thoroughly wet the foliage of the target plants but not to the point of runoff. Apply after full leafout, but before autumn colouration. For woody plants exceeding 2.5 m in height cut and spray regrowth or use one of the basal application methods.

Broadcast Foliar

For woody plant control and broadleaved weed control, make applications with equipment that will assure uniform coverage of the low spray volume applied. Do not use pressure exceeding 275 kPa at the spray nozzle. Apply any time during the growing season. Use the higher rates for late summer applications when growth rates are reduced or when hard-to-control species are present.

Woody Plant Control

Mix 2.5 to 5 L of Garlon XRT Herbicide in a minimum of 200 L of water per hectare to ensure uniform coverage.

Broadleaved Weed Control

Mix 0.6 to 2.5 L of Garlon XRT Herbicide in a minimum of 200 L of water per hectare to ensure uniform coverage.

BASAL BARK APPLICATIONS

General Information and Mixing Instructions

For control of woody plants in rights-of-way, military bases, industrial sites and non-crop areas, use Garlon XRT Herbicide in oil mixtures prepared and applied as described below. Use a diluent such as mineral oil or vegetable oil. Add Garlon XRT Herbicide to the required amount of oil in the mixing tank and mix thoroughly. When mixing with oils commercially formulated for basal bark herbicide applications, read and follow the use directions and precautions on the product label prepared by the oil's manufacturer.

Use the higher spray mixture concentration of Garlon XRT Herbicide when treating basal sprouting and root suckering species or when applying during the dormant season. Use low nozzle pressure to minimize spattering of spray solution off the target stem.

One-Sided Low Volume

To control woody plants with stems less than 15 cm in basal diameter, mix 13 to 19 L of Garlon XRT Herbicide in enough oil diluent to make 100 L of spray mixture. Apply with a knapsack or backpack sprayer using a flat fan or solid cone nozzle, or wick attachment. Low pump pressures of 70 to 210 kPa are recommended. Spray the basal parts of at least one side of each stem to thoroughly wet the lower 30 cm, including the root collar area, but not to the point of runoff. Apply at any time, including the winter months, except when snow or water prevents spraying at the ground line.

Streamline

To control woody plants, mix 13 to 19 L of Garlon XRT Herbicide in enough oil to make 100 L of spray mixture. Apply using a knapsack or backpack sprayer with a flat fan or solid cone nozzle, or wick attachment. Low pump pressures of 70 to 210 kPa are recommended. Apply sufficient spray to one side of stems less than 8 cm in basal diameter to form a band 5 cm in width. When the optimum amount of spray mixture is applied, the treated zone should widen to encircle the stem within approximately 30 minutes. Treat both sides of stems which are 8 to 15 cm in basal diameter. Direct the spray at a point on the stem that is approximately 30 to 50 cm above ground level. Optimal results are achieved when applications are made to young vigorously growing stems which have not developed the thicker bark characteristics of slower growing, understory trees in older stands. Apply at any time, including the winter months, except when snow or water prevents spraying at the desired height above ground level.

Cut Stump Treatment

To control resprouting of cut stumps of woody species, mix 13 to 19 L of Garlon XRT Herbicide in enough oil to make 100 L of spray mixture. Apply the solution to thoroughly wet the outer portion of the cut surface adjacent to the cambium and the sides of the stumps, including the root collar area, but not to the point of runoff. Apply at any time, including the winter months, except when snow or water prevents spraying to the ground line. Care must be given to ensure treatment of all cut stems in a clump. Apply with a backpack or knapsack sprayer using a flat fan or a solid cone nozzle. Low pump pressures of 70 to 210 kPa are recommended.

Conventional Piloted Aircraft Application (Aerial Application)

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. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

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 conventional piloted aircraft (aerial) application on this label. **Where no rate for conventional piloted aircraft (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 or a GPS system.

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 conventional piloted aircraft (aerial) application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pesticide Management and Pesticides.

Remotely Piloted Aircraft Systems (RPAS)

Garlon XRT Herbicide may be applied by remotely piloted aircraft systems (RPAS) for control of willow, poplar and aspen tree species growing on non-crop areas such as rights of ways, and industrial sites. Use 2.5 to 5 L of Garlon XRT Herbicide in a minimum spray volume of 30 L per hectare. Ensure uniform and adequate coverage is achieved and that equipment has been accurately calibrated. Use higher application rates and volumes when the tree species are dense or under drought conditions.

Remotely Piloted Aircraft Systems (RPAS) 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. Pilots must operate their RPAS in compliance with Part IX of the Canadian Aviation Regulations (SOR/96-433).

Apply only by RPAS which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Use uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices or a GPS system.

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 remotely piloted aircraft systems (RPAS) application as outlined in the *Canadian Remotely Piloted Aircraft Systems Manual*, developed by the Federal/Provincial/Territorial Committee on Pesticide Management and Pesticides.

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 RPAS application on this label. Where no rate for RPAS application appears for the specific use, this product cannot be applied by any type of RPAS equipment.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3852 or obtain technical advice from the distributor or your provincial/territorial agricultural representative. Application of this specific product must meet and/or conform to the precautions and application rates set out below.

SPRAY BUFFER ZONE TABLES FOR GARLON XRT HERBICIDE

A. SPRAY BUFFER ZONES FROM AQUATIC HABITATS

A spray buffer zone should be maintained to avoid overspray and drift into wetlands, lakes, ponds, streams, rivers, and wildlife habitats at the edge of bodies of water. Appropriate spray buffer zones, based on aircraft type, boom height, droplet spectrum, and rate of application, are as follows.

For application to rights-of-way, spray 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 (e.g., wind directions, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified spray buffer zones for protection of sensitive aquatic habitats.

The spray buffer zones specified in the tables below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

APPLICATION BY FIXED WING AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height) †			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	10	31	71	112
>2.5 to 3.8 L/ha	18	43	94	150
>3.8 to 5 L/ha	26	56	122	205

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	5	19	54	91
>2.5 to 3.8 L/ha	10	28	69	116
>3.8 to 5 L/ha	14	35	82	142

† Boom height is the distance between the target vegetation (e.g. canopy) and the boom of the aircraft. The spray buffer zone is the distance between the sensitive habitat and the downwind edge of the spray boom. For example, these charts are read as follows: at an application rate of 3.8 L/ha, a boom height of 10 m, and a coarse droplet spectrum (VMD 351 µm), maintain a 17 m spray buffer zone between aquatic habitats (e.g., wetlands, lakes, ponds, streams, rivers, and wildlife habitats at the edge of bodies of water) and the downwind edge of the spray boom.

APPLICATION BY ROTARY AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	5	13	47	86
>2.5 to 3.8 L/ha	8	17	59	108
>3.8 to 5 L/ha	12	20	72	144

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	3	10	37	71
>2.5 to 3.8 L/ha	6	12	46	87

>3.8 to 5 L/ha	7	14	53	103
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APPLICATION BY REMOTELY PILOTED AIRCRAFT SYSTEM

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	5	13	47	86
>2.5 to 3.8 L/ha	8	17	59	108
>3.8 to 5 L/ha	12	20	72	144

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	3	10	37	71
>2.5 to 3.8 L/ha	6	12	46	87
>3.8 to 5 L/ha	7	14	53	103

B. SPRAY BUFFER ZONES FROM TERRESTRIAL HABITATS

A spray buffer zone should be maintained to avoid overspray and drift into sensitive terrestrial wildlife habitats. Consult the Provincial/Territorial Pesticide Authority regarding the determination of these areas. Appropriate spray buffer zones, based on aircraft type, boom height, droplet spectrum, and rate of application, are as follows.

For application to rights-of-way, spray 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 (e.g., wind directions, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified spray buffer zones for protection of sensitive aquatic habitats.

The spray buffer zones specified in the tables 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).

APPLICATION BY FIXED WING AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	18	36	69	99
>2.5 to 3.8 L/ha	26	45	82	116
>3.8 to 5 L/ha	31	53	92	132

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	14	27	56	82
>2.5 to 3.8 L/ha	18	35	69	98
>3.8 to 5 L/ha	21	40	76	112

APPLICATION BY ROTARY AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	14	22	54	84
>2.5 to 3.8 L/ha	17	26	61	96
>3.8 to 5 L/ha	19	28	68	105

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	11	18	46	71
>2.5 to 3.8 L/ha	13	21	53	84
>3.8 to 5 L/ha	16	23	59	93

APPLICATION BY REMOTELY PILOTED AIRCRAFT SYSTEM

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	14	22	54	84
>2.5 to 3.8 L/ha	17	26	61	96
>3.8 to 5 L/ha	19	28	68	105

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	11	18	46	71
>2.5 to 3.8 L/ha	13	21	53	84
>3.8 to 5 L/ha	16	23	59	93

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

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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, with the exception of RPAS applications, can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

TANK MIXTURES

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Corteva Agriscience Canada Company at 1-800-667-3852 or www.corteva.ca for information before applying any tank mix that is not specifically recommended on this label.

TANK-MIX COMBINATION WITH GARLON XRT HERBICIDE – Non-cropland Uses

Garlon XRT Herbicide can be tank mixed with ClearView Herbicide to broaden the spectrum of weeds, woody plants and trees controlled on rights-of-way, industrial areas (including but not limited to right-of-way and military bases) and other non-crop areas where bare ground is desirable. This tank-mix will provide control of a broad spectrum of broadleaf weeds, woody plants and tree species. When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

Tank-Mix Combination - Garlon XRT Herbicide plus ClearView Herbicide

Use 135 – 230 g/ha of ClearView Herbicide tank-mixed with 2.5 – 5 L/ha of Garlon XRT Herbicide. Use a recommended surfactant (such as Gateway Adjuvant, SYLGARD OFX-0309 Fluid, or recommended non-ionic surfactant such as Ag-Surf**, Agral 90*, or Citowett Plus) at the rate of 0.375% by volume (375 mL per 100 L of water). See surfactant label for a full list of recommended rates. Some surfactants require rates ranging from 0.2 to 1%. See ClearView Herbicide label for the full list of broadleaf weeds and woody plants controlled.

For the control of black spruce, use 230 g of ClearView Herbicide tank-mixed with 4-5 L of Garlon XRT, in 1,000 L/ha for hose and handgun applications and a minimum of 200 L/ha for broadcast applications, along with a recommended surfactant (such as Gateway Adjuvant, SYLGARD OFX-0309 Fluid, or recommended non-ionic surfactant such as Ag-Surf, Agral 90, or Citowett Plus) at the rate of 0.375% by volume (375 mL per 100 L of water). See surfactant label for a full list of recommended rates. Some surfactants require rates ranging from 0.2 to 1%.

*Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

** Choose one of IPCO Ag-Surf Original, Weedaway Ag-Surf Liquid Spray Adjuvant, IPCO Ag-Surf II or Weedaway Ag-Surf II.

MIXING METHODS

Mixing with Water

1. Fill the spray tank 3/4 full of clean water
2. Add the required amount of ClearView Herbicide with the agitation running. Pre-slurrying with water may be necessary where there is little or no agitation or an injection system is being used or where herbicide is first added to a tank other than the spray tank.
3. Add the required amount of Garlon XRT Herbicide with the agitation running.
4. Add the recommended adjuvant.
5. Add antifoaming agent, if required.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Corteva Agriscience Canada Company under the user requested minor use label expansion program. For these uses, Corteva Agriscience Canada Company has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

DIRECTIONS FOR USE

LOWBUSH BLUEBERRY SITE PREPARATION

Make one application per year. Apply as a directed ground spray. Direct contact of the spray with the blueberry plant will cause severe damage.

Woody plants controlled: alder, ash, birch, chokecherry[†], maples (red maple[†]), and poplar.
[†]may require higher rates and a repeat application the following year for control.

Application rate: Refer to the **Basal Bark Application** section of the main Garlon XRT Herbicide label for the application rate to use.

CHRISTMAS TREE PLANTATIONS

For the control of labelled weeds, including smooth bedstraw, in Christmas tree plantations, apply Garlon XRT Herbicide at the rate of 635 millilitres per hectare in 250 to 300 litres of water as a directed spray below the branches. The spray should not contact the branches of the Christmas trees as injury will occur. The use of shields will help prevent direct contact with the tree branches. Ensure complete coverage of the leaves of the target weeds. Apply to trees at least 1.2 metres tall.

Apply Garlon XRT Herbicide after the buds of the Christmas trees have hardened off and no lammass growth is present.

Do not apply in the year of planting. Apply only once per year.

Refer to the main Garlon XRT Herbicide label for additional details and instructions.

RESTRICTED USE

Garlon XRT Herbicide may be applied by conventional piloted aircraft (aerial) for control of susceptible woody plants growing on rights-of-way, industrial sites and military bases.

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.

NATURE OF RESTRICTION: This product is to be used only in the manner authorized; consult provincial/territorial pesticide regulatory authorities about use permits.

DIRECTIONS FOR USE

Conventional Piloted Aircraft (Aerial) Application

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 conventional piloted aircraft

(aerial) application on this label. **Where no rate for conventional piloted aircraft (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 conventional piloted aircraft (aerial) application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pesticide 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 spray 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.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3852 or obtain technical advice from the distributor or your provincial/territorial agricultural representative. Application of this specific product must meet and/or conform to the precautions and application rates set out below.

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product is highly toxic to fish, aquatic plants and aquatic invertebrates and is not labelled for application to water surfaces. Keep out of wetlands, lakes, ponds, streams, rivers and wildlife habitats at the edge of bodies of water. Do not contaminate water by cleaning of equipment or disposal of wastes. This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Sensitive terrestrial and aquatic habitat must be protected. A spray buffer zone should be maintained to avoid overspray and drift into these habitats (refer to Ground Application and/or Conventional Piloted Aircraft (Aerial) Application sections for the spray buffer zone requirements and spray drift control recommendations). Examples of habitat which may border treated areas are shelterbelts, wetlands (e.g., potholes), sloughs, dry slough borders, non-target wooded areas and vegetated areas adjacent to water.

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 filter strip between the treated area and the edge of the water body.

Conventional Piloted Aircraft (Aerial) application must only be done on the basis of provincial/territorial use permit. Spray buffer zones are specified to protect the sensitive areas as identified in the Environmental Precautions section of the product label.

Among the species controlled are:

alder	elderberry	pinus [▲]
ash	elm [▲]	poplar
aspen	hawthorn	red maple [▲]
basswood	hickory	raspberry [▲]
beech	hop-hornbeam	sassafras
birch	honey locust [▲]	sumac
blackberry	locust	sycamore
buckthorn	maples	tamarack
cherry [▲]	mulberry	wild rose
chokecherry [▲]	oaks [▲]	willow
cottonwood	poison oak	witchhazel
dogwood		

[▲]These species may require treatment at the higher rate and may need to be retreated the following year, particularly if the original treatment was made at the lower rate.

DIRECTIONS FOR USE

CONVENTIONAL PILOTED AIRCRAFT (AERIAL) APPLICATION

Garlon XRT Herbicide may be applied by either fixed or rotary wing aircraft for the control of susceptible woody plants growing on rights-of-way, industrial sites and military bases. Use 2.5 to 5 L of Garlon XRT Herbicide in a minimum spray volume of 30 L per hectare. Delivery systems suggested for use in applying Garlon XRT Herbicide by air include: booms equipped with coarse droplet producing conventional disc and core nozzles (such as D8-46 or D10-46), the Microfoil boom or the Thru-Valve boom. Ensure uniform and adequate coverage is achieved and that equipment has been accurately calibrated. Use higher application rates and volumes when plants are dense or under drought conditions.

USE PRECAUTIONS

Garlon XRT Herbicide is not registered for application to water surfaces including lakes, ponds and streams and is highly toxic to fish, aquatic plants and aquatic invertebrates. Do not overspray such areas. In order to reduce the hazard of drift to sensitive areas as identified in the Environmental Precautions section of the label, ensure that appropriate spray buffer zones are maintained as outlined below.

Use only closed mixing/loading systems for conventional piloted aircraft (aerial) application.

SPRAY BUFFER ZONE TABLES FOR GARLON XRT HERBICIDE

A. SPRAY BUFFER ZONES FROM AQUATIC HABITATS

A spray buffer zone should be maintained to avoid overspray and drift into wetlands, lakes, ponds, streams, rivers, and wildlife habitats at the edge of bodies of water. Appropriate spray buffer zones, based on aircraft type, boom height, droplet spectrum, and rate of application, are as follows.

For application to rights-of-way, spray 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 (e.g., wind directions, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified spray buffer zones for protection of sensitive aquatic habitats.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

APPLICATION BY FIXED WING AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height) †			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	10	31	71	112
>2.5 to 3.8 L/ha	18	43	94	150
>3.8 to 5 L/ha	26	56	122	205

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	5	19	54	91
>2.5 to 3.8 L/ha	10	28	69	116
>3.8 to 5 L/ha	14	35	82	142

† Boom height is the distance between the target vegetation (e.g. canopy) and the boom of the aircraft. The spray buffer zone is the distance between the sensitive habitat and the downwind edge of the spray boom. For example, these charts are read as follows: at an application rate of 3.8 L/ha, a boom height of 10 m, and a coarse droplet spectrum (VMD 351 µm), maintain a 17 m spray buffer zone between aquatic habitats (e.g., wetlands, lakes, ponds, streams, rivers, and wildlife habitats at the edge of bodies of water) and the downwind edge of the spray boom.

APPLICATION BY ROTARY AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	5	13	47	86
>2.5 to 3.8 L/ha	8	17	59	108
>3.8 to 5 L/ha	12	20	72	144

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	3	10	37	71
>2.5 to 3.8 L/ha	6	12	46	87
>3.8 to 5 L/ha	7	14	53	103

B. SPRAY BUFFER ZONES FROM TERRESTRIAL HABITATS

A spray buffer zone should be maintained to avoid overspray and drift into sensitive terrestrial wildlife habitats. Consult the Provincial/Territorial Pesticide Authority regarding the determination of these areas. Appropriate spray buffer zones, based on aircraft type, boom height, droplet spectrum, and rate of application, are as follows.

For application to rights-of-way, spray 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 (e.g., wind directions, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified spray buffer zones for protection of sensitive aquatic habitats.

The spray 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).

APPLICATION BY FIXED WING AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	18	36	69	99
>2.5 to 3.8 L/ha	26	45	82	116
>3.8 to 5 L/ha	31	53	92	132

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	14	27	56	82
>2.5 to 3.8 L/ha	18	35	69	98
>3.8 to 5 L/ha	21	40	76	112

APPLICATION BY ROTARY AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	14	22	54	84
>2.5 to 3.8 L/ha	17	26	61	96
>3.8 to 5 L/ha	19	28	68	105

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	11	18	46	71
>2.5 to 3.8 L/ha	13	21	53	84
>3.8 to 5 L/ha	16	23	59	93

Spray Drift Control

Apply only when there is little or no hazard of spray drift since small quantities of product may injure susceptible crops and damage sensitive non-target habitats.

1. Do not apply Garlon XRT Herbicide when wind velocity and direction pose a risk of spray drift.
2. Do not apply when the wind speed is greater than 16 km/hr.
3. Garlon XRT Herbicide should not be applied at a boom height greater than 30 m above the target vegetation.
4. Conventional Piloted Aircraft (Aerial) application should be made as close to the ground as possible while maintaining adequate coverage.
5. For helicopter application use pressures at the lower end of the range recommended by the nozzle manufacturer. For fixed wing application use pressures at the higher end of the range recommended by the nozzle manufacturer.
6. Use a boom length less than 75% of the wingspan or rotor length.
7. Coarse spray droplets are less prone to drift, therefore avoid spray dispersal systems and settings that produce a large proportion of fine droplets in the spray pattern. Delivery systems suggested for use in applying Garlon XRT Herbicide by air include: booms equipped with coarse droplet producing conventional disc and core nozzles (such as D8-46 or D10-46), straight stream coreless nozzles (such as D6 or D8), and the Microfoil or Thru-Valve boom. Conventional disc and core nozzles should be oriented straight back or at an angle of less than 30° down.
8. Do not apply by air when an air temperature inversion exists. Such condition is characterized by little or no wind and an air temperature near the ground that is lower than at higher levels. A

method must be used to detect air movement, lapse conditions or temperature inversions such as the use of balloons or a continuous smoke column at or near the site.

RESTRICTED USE

CONVENTIONAL PILOTED AIRCRAFT (AERIAL) APPLICATION FOR FOREST MANAGEMENT

AREAS (GREATER THAN 500 HECTARES) AND WOODLAND MANAGEMENT AREAS (500 HECTARES OR LESS): This includes site preparation prior to planting crop trees and release of crop trees following planting or in natural regeneration sites.

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.

NATURE OF RESTRICTION: This product is to be used only in the manner authorized; consult provincial/territorial pesticide regulatory authorities about use permits.

DIRECTIONS FOR USE

Conventional Piloted Aircraft (Aerial) Application

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 conventional piloted aircraft (aerial) application on this label. **Where no rate for conventional piloted aircraft (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 or a GPS system.

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 conventional piloted aircraft (aerial) application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3852 or obtain technical advice from the distributor or your provincial/territorial agricultural representative. Application of this specific product must meet and/or conform to the precautions and application rates set out below.

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product is highly toxic to fish, aquatic plants and aquatic invertebrates and is not labelled for application to water surfaces. Keep out of wetlands, lakes, ponds, streams, rivers and wildlife habitats at the edge of bodies of water. Do not contaminate water by cleaning of equipment or disposal of wastes. This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Sensitive terrestrial and aquatic habitat must be protected. A spray buffer zone should be maintained to avoid overspray and drift into these habitats (refer to Ground Application and/or Conventional Piloted Aircraft (Aerial) Application sections for the spray buffer zone requirements and spray drift control

recommendations). Examples of habitat which may border treated areas are shelterbelts, wetlands (e.g., potholes), sloughs, dry slough borders, non-target wooded areas and vegetated areas adjacent to water.

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 filter strip between the treated area and the edge of the water body.

Conventional Piloted Aircraft (Aerial) application must only be done on the basis of provincial/territorial use permit. Spray buffer zones are specified to protect the sensitive areas as identified in the Environmental Precautions section of this label.

Among the species controlled are:

red alder	pin cherry	red oak
speckled alder	bigleaf maple▼	balsam poplar
white ash	red maple	raspberry
trembling aspen	sugar maple▼	willow
white birch*		

*White birch is best controlled through the use of any one of the foliar application methods.

▼Sugar maple and bigleaf maple are best controlled through the use of any one of the basal bark application methods.

DIRECTIONS FOR USE:

CONVENTIONAL PILOTED AIRCRAFT (AERIAL) APPLICATION

Garlon XRT Herbicide may be applied by either fixed or rotary wing aircraft. Delivery systems suggested for use in applying Garlon XRT Herbicide by air include: booms equipped with coarse droplet producing conventional disc and core nozzles (such as the D8-46 or D10-46), the Microfoil boom or the Thru-Valve boom. Ensure uniform and adequate coverage is achieved and that equipment has been accurately calibrated. Use higher application rates and volumes when plants are dense or under drought conditions.

Plantation or Natural Stand Release

To release crop trees such as black spruce and white spruce from raspberry and deciduous competition, apply 1.9 to 3.8 L of Garlon XRT Herbicide with water in a minimum of 30 L of total spray solution per hectare. The higher rates are suggested for control of basal sprouting or root suckering species and for tall, dense brush.

Application should be made in late summer after conifers have hardened off (buds firm and sharp to the touch) and when deciduous species are in full leaf prior to autumn colouration.

To release jack pine, use 1.9 to 2.5 L per hectare of Garlon XRT Herbicide. Jack pine injury including needle damage, leader atrophy and scattered mortality may occur at application rates above 2.5 L per hectare or if seedlings are not completely dormant. Do not apply Garlon XRT Herbicide to release jack pine stands unless such injury can be tolerated. The potential for jack pine injury can be reduced by ensuring that trees are not in lammass or secondary growth stage. Healthy, vigorous jack pine seedlings in the ground for at least two years prior to application, are less likely to show symptoms of injury.

Site Preparation

Apply 1.9 to 5 L of Garlon XRT Herbicide with water in a minimum of 30 L of total spray solution per hectare. The higher rates are suggested for control of basal sprouting or root suckering species and for tall, dense brush. Applications should be made after full leaf-out of target species, but prior to autumn colouration. Any coniferous silvicultural species may be planted in the season following treatment.

USE PRECAUTIONS

Garlon XRT Herbicide is not registered for application to water surfaces including lakes, ponds and streams and is highly toxic to fish, aquatic plants and aquatic invertebrates. Do not overspray such areas. In order to reduce the hazard of drift to sensitive areas as identified in the Environmental Precautions section of the label ensure that appropriate spray buffer zones are maintained as outlined below.

Use only closed mixing/loading systems for conventional piloted aircraft (aerial) application.

SPRAY BUFFER ZONE TABLES FOR GARLON XRT HERBICIDE

A. SPRAY BUFFER ZONES FROM AQUATIC HABITATS

A spray buffer zone should be maintained to avoid overspray and drift into wetlands, lakes, ponds, streams, rivers, and wildlife habitats at the edge of bodies of water. Appropriate spray buffer zones, based on aircraft type, boom height, droplet spectrum, and rate of application, are as follows.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

APPLICATION BY ROTARY AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height) †			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	7	15	77	175
>2.5 to 3.8 L/ha	12	21	147	278
>3.8 to 5 L/ha	18	27	190	368

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	4	10	44	101
>2.5 to 3.8 L/ha	6	14	60	153
>3.8 to 5 L/ha	8	16	81	193

† Boom height is the distance between the target vegetation (e.g. canopy) and the boom of the aircraft. The spray buffer zone is the distance between the sensitive habitat and the downwind edge of the spray boom. For example, these charts are read as follows: For a fixed wing aircraft, at an application rate of 3.8 L/ha, a boom height of 10 m, and a coarse droplet spectrum (VMD 351 µm), maintain a 79 m spray buffer zone between aquatic habitats (e.g., wetlands, lakes, ponds, streams, rivers, and wildlife habitats at the edge of bodies of water) and the downwind edge of the spray boom.

APPLICATION BY ROTARY AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	7	15	77	175
>2.5 to 3.8 L/ha	12	21	147	278
>3.8 to 5 L/ha	18	27	190	368

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application	Spray Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
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(L Garlon XRT/ha)	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	4	10	44	101
>2.5 to 3.8 L/ha	6	14	60	153
>3.8 to 5 L/ha	8	16	81	193

B. SPRAY BUFFER ZONES FROM TERRESTRIAL HABITATS

A spray buffer zone should be maintained to avoid overspray and drift into sensitive terrestrial wildlife habitats. Consult the Provincial/Territorial Pesticide Authority regarding the determination of these areas. Appropriate spray buffer zones, based on aircraft type, boom height, droplet spectrum, and rate of application, are as follows.

The spray 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).

APPLICATION BY FIXED WING AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	19	40	81	124
>2.5 to 3.8 L/ha	29	53	107	174
>3.8 to 5 L/ha	35	64	140	232

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	14	29	62	96
>2.5 to 3.8 L/ha	19	38	77	124
>3.8 to 5 L/ha	23	44	91	152

APPLICATION BY ROTARY AIRCRAFT

1) DROPLET SPECTRUM: COARSE (VMD 351 µm; range 163 to 595 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	15	23	60	100
>2.5 to 3.8 L/ha	18	27	74	128
>3.8 to 5 L/ha	21	30	90	176

2) DROPLET SPECTRUM: VERY COARSE (VMD 461 µm; range 224 to 787 µm)

Rate of Application (L Garlon XRT/ha)	Spray Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
2.5 L/ha	11	19	49	81
>2.5 to 3.8 L/ha	14	22	58	100
>3.8 to 5 L/ha	17	24	65	117

Spray Drift Control

Apply only when there is little or no hazard of spray drift since small quantities of product may injure susceptible crops and damage non-target habitat.

1. Do not apply Garlon XRT Herbicide when wind velocity and direction pose a risk of spray drift.
2. Do not apply when the wind speed is greater than 16 km/hr.

3. Garlon XRT Herbicide should not be applied at a boom height greater than 30 m above the target vegetation.
4. Conventional piloted aircraft (aerial) applications should be made as close to the ground as possible while maintaining adequate coverage.
5. For helicopter application use pressures at the lower end of the range recommended by the nozzle manufacturer. For fixed wing application use pressures at the higher end of the range recommended by the nozzle manufacturer.
6. Use a boom length less than 75% of the wingspan or rotor length.
7. Coarse spray droplets are less prone to drift, therefore avoid spray dispersal systems and settings that produce a large proportion of fine droplets in the spray pattern. Delivery systems suggested for use in applying Garlon XRT Herbicide by air include: booms equipped with coarse droplet producing conventional disc and core nozzles (such as the D8-46 or D10-46), straight stream coreless nozzles (such as D6 or D8) and the Microfoil or Thru-Valve boom. Conventional disc and core nozzles should be oriented straight back or at an angle of less than 30° down.
8. Do not apply by air when an air temperature inversion exists. Such condition is characterized by little or no wind and an air temperature near the ground that is lower than at higher levels. A method must be used to detect air movement, lapse conditions or temperature inversions, such as the use of balloons, a spotter plane or a continuous smoke column at or near the site.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Garlon XRT Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Garlon XRT Herbicide and other Group 4 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 Garlon XRT Herbicide or other Group 4 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 Corteva Agriscience Canada Company at 1-800-667-3852 or at www.corteva.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.

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