



# Garlon\* 4

## Herbicide

For the control of undesirable woody plants and annual and perennial broadleaved weeds on pastures and rangelands, and in non-crop areas such as rights-of-way, military bases and industrial sites.

COMMERCIAL

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

GUARANTEE: triclopyr 480g acid equivalent/L  
(present as butoxyethyl ester)

REGISTRATION NO. 21053 PEST CONTROL PRODUCTS ACT

**CAUTION**  **POISON**

**POTENTIAL SKIN SENSITIZER**

NET CONTENTS: 2 x 10 L, 110 L returnable container

**Dow AgroSciences Canada Inc.**  
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Dow AgroSciences Canada Inc. is a licenced user.

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**OPERATOR USE PRECAUTIONS**  
**HARMFUL IF SWALLOWED**  
**MAY CAUSE SKIN IRRITATION**  
**MAY BE HARMFUL IF ABSORBED THROUGH SKIN**  
**POTENTIAL SKIN SENSITIZER**

Avoid contact with eyes, skin and clothing. 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 an air-purifying respirator equipped with organic vapour cartridges. Avoid contact with treated foliage and other contaminated surfaces while wet. When spraying, 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. 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 4 herbicide:**

- Read and follow directions in the Protective Equipment Requirements and Operator Use 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.
- Applicators should be supervised to ensure that all label directions and proper application techniques are followed.

### **PROTECTIVE EQUIPMENT REQUIREMENTS**

#### **Handling Concentrate**

When handling concentrate, wear goggles or faceshield, chemical resistant gloves (nitrile or neoprene), clean coveralls over normal work clothes, impermeable head covering and chemical resistant boots (rubber) during all mixing/loading activities. 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.

#### **Applying Dilute Spray Solution**

When spraying dilute solution and during equipment maintenance and repair, wear clean coveralls over normal working clothes, impermeable head covering, chemical resistant gloves (nitrile or neoprene) and chemical resistant footwear such as rubber boots.

### **PHYSICAL OR CHEMICAL HAZARDS**

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

#### **FIRST AID**

**If swallowed:** Do not induce vomiting. Call a physician and/or transport to emergency facility immediately or contact a poison control centre.

**If in eyes:** Irrigate immediately with flowing water for fifteen minutes.

**If inhaled:** Remove to fresh air if effects occur. Consult a physician or a poison control centre.

**If on skin:** Wash off in flowing water or shower.

### **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. **This product contains petroleum distillates.** No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

For further information consult the Material Safety Data Sheet.

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

## **ENVIRONMENTAL HAZARDS**

- 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.
- Sensitive terrestrial and aquatic habitat must be protected. A buffer zone should be maintained to avoid overspray and drift into these habitats (refer to Ground Application and/or Aerial Application sections on the 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.

## **STORAGE**

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

## **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).

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.

## **GENERAL INFORMATION**

Garlon 4 herbicide is recommended for the control of undesirable woody plants and annual and perennial broadleaved weeds in pastures and rangelands, and 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.

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
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.

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	

## GENERAL USE PRECAUTIONS

- Do not apply this product in a manner inconsistent with the label.
- Do not apply Garlon 4 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 4 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

- I. Lactating dairy animals
  - A. Up to 4.7 L/ha: withhold lactating dairy animals from consuming treated green forage for 14 days following treatment.
  - B. 4.7 to 8.0 L/ha: withhold lactating dairy animals from consuming treated forage for 60 days following treatment.
- II. Other livestock
  - A. Up to 4.7 L/ha: no grazing restriction.

- B. 4.7 to 8.0 L/ha: do not graze or harvest green forage from treated area for 14 days following treatment.
- III. **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)**

- I. Lactating dairy animals
- A. For treatments up to 8.0 L/ha do not feed lactating dairy animals hay which had been harvested within 60 days of treatment.
- II. Other livestock
- A. Up to 4.7 L/ha: do not harvest for 7 days following treatment.
- B. 4.7 to 8.0 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**

For best results, applications of Garlon 4 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.

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

### **Ground Application**

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

### **Use Precautions**

Garlon 4 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 buffer zones are maintained and refer to the section Spray Drift Control.

### **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<sup>®</sup> or Nalco-Trol<sup>®</sup> 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 4 when wind velocity and direction pose a risk of spray drift. Apply when wind speed is low. For aerial application, please refer to "Use Precautions" for appropriate 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 4 at rates of 4 to 8 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 1 to 5 L of Garlon 4 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 4 to 8 L of Garlon 4 in a minimum of 200 L of water per hectare to ensure uniform coverage.

### **Broadleaved Weed Control**

Mix 1 to 4 L of Garlon 4 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 4 in oil mixtures prepared and applied as described below. Use a diluent such as diesel fuel, fuel oil, kerosene or mineral oil or vegetable oil. Add Garlon 4 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 4 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.

### **Conventional Volume**

To control woody plants with stems less than 15 cm in basal diameter, mix 1 to 5 L of Garlon 4 in enough oil to make 100 L of spray mixture. Apply with backpack or knapsack sprayer using a flat fan or solid cone nozzle. Low pump pressures of 150 to 275 kPa are recommended. Spray the basal parts of each stem from a height of 50 cm down to the root collar. Thorough wetting of the indicated area is necessary for good control. Spray until runoff at the ground line is noticeable. Old or rough bark requires more spray than young, smooth bark. Apply at any time, including the winter months, except when snow or water prevent spraying at the ground line.

**One-Sided Low Volume**

To control woody plants with stems less than 15 cm in basal diameter, mix 20 to 30 L of Garlon 4 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 prevent spraying at the ground line.

**Thin Line**

To control woody plants with stems less than 15 cm in basal diameter, apply undiluted Garlon 4 in a thin stream to all sides of the lower parts of each stem. The stream should be directed horizontally to apply a narrow band of Garlon 4 around the entire circumference of each stem about 15 cm above the ground. From 2 to 15 mL of chemical will be required for treatment of single stems, and from 25 to 100 mL to treat clumps of stems. A straight stream nozzle and an applicator metered or calibrated to deliver the small amounts of herbicide required should be used. Low pump pressures of 70 to 210 kPa are recommended. Apply at any time, including the winter months, except when snow or water prevents spraying at the desired height above ground level.

**Streamline**

To control woody plants, mix 20 to 30 L of Garlon 4 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 20 to 30 L of Garlon 4 in enough oil to make 100 L of spray mixture. 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. 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.

**NOTE TO BUYER/USER:** READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Dow AgroSciences Canada Inc. and are accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Dow AgroSciences Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Dow AgroSciences Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described below.

#### **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<sup>†</sup>, maples (red maple<sup>†</sup>), and poplar.  
<sup>†</sup>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 4 label for the application rate to use.

#### **RESTRICTED USE**

Garlon 4 may be applied by air for control of susceptible woody plants growing on rights-of-way, industrial sites and military bases.

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

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

#### **ENVIRONMENTAL HAZARDS**

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. A buffer zone should be maintained to avoid overspray and drift into these habitats. Do not contaminate water by cleaning of equipment or disposal of wastes.

Aerial application must only be done on the basis of provincial use permit. Buffer zones are specified to protect the sensitive areas as identified in the Environmental Hazards 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:**

**AERIAL APPLICATION**

Garlon 4 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 4 to 8 L of Garlon 4 in a minimum spray volume of 30 L per hectare. Delivery systems suggested for use in applying Garlon 4 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 4 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 Hazards section of the label, ensure that appropriate buffer zones are maintained as outlined below.

Use only closed mixing/loading systems for aerial application.

**BUFFER ZONE TABLES FOR GARLON 4 HERBICIDE**

**A. BUFFER ZONES FROM AQUATIC HABITATS**

A 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 buffer zones, based on aircraft type, boom height, droplet spectrum, and rate of application, are as follows.

**APPLICATION BY FIXED WING AIRCRAFT**

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

Rate of Application (L Garlon 4/ha)	Buffer Zones (m) from Aquatic Habitats (by Boom Height) †			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	10	31	71	112
>4 to 6 L/ha	18	43	94	150
>6 to 8 L/ha	26	56	122	205

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

Rate of Application (L Garlon 4/ha)	Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	5	19	54	91
>4 to 6 L/ha	10	28	69	116
>6 to 8 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 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 6 L/ha, a boom height of 10 m, and a coarse droplet spectrum (VMD 351 m), maintain a 17 m 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 m; range 163 to 595 m)**

Rate of Application (L Garlon 4/ha)	Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	5	13	47	86
>4 to 6 L/ha	8	17	59	108
>6 to 8 L/ha	12	20	72	144

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

Rate of Application (L Garlon 4/ha)	Buffer Zones (m) from Aquatic Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	3	10	37	71
>4 to 6 L/ha	6	12	46	87
>6 to 8 L/ha	7	14	53	103

**B. BUFFER ZONES FROM TERRESTRIAL HABITATS**

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

**APPLICATION BY FIXED WING AIRCRAFT**

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

Rate of Application (L Garlon 4/ha)	Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	18	36	69	99
>4 to 6 L/ha	26	45	82	116
>6 to 8 L/ha	31	53	92	132

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

Rate of Application (L Garlon 4/ha)	Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	14	27	56	82
>4 to 6 L/ha	18	35	69	98
>6 to 8 L/ha	21	40	76	112

## APPLICATION BY ROTARY AIRCRAFT

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

Rate of Application (L Garlon 4/ha)	Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	14	22	54	84
>4 to 6 L/ha	17	26	61	96
>6 to 8 L/ha	19	28	68	105

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

Rate of Application (L Garlon 4/ha)	Buffer Zones (m) from Terrestrial Habitats (by Boom Height)			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	11	18	46	71
>4 to 6 L/ha	13	21	53	84
>6 to 8 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 4 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 4 should not be applied at a boom height greater than 30 m above the target vegetation.
4. 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 wing span 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 4 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.

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

Radiarc<sup>®</sup> and Thru-Valve<sup>®</sup> are trademarks of Waldrum Specialties Inc.  
Nalco-Trol<sup>®</sup> is a trademark of Alchem Inc.  
Microfoil<sup>®</sup> is a trademark of Union Carbide Corp.

PMRA Accepted: 09-02-99

Label Code: CN-21053-001-E

Revisions:

1. The Environmental Hazards statement was revised to include wetlands and rivers.
2. Basal bark applications for woody weed control in lowbush blueberry added to Minor Use box.
3. Aquatic and terrestrial buffer zone tables were added to the Restricted Use Box for aerial application.