

PMRA Approved English label (AH)
2018-0874 [phase 3 component]
2018-04-09

(Container)

TRICLOPYR 480 HERBICIDE

Group 4 Herbicide

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

COMMERCIAL

Emulsifiable Concentrate

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

GUARANTEE: triclopyr , present as butoxyethyl ester 480g acid equivalent/L
REGISTRATION NO. 33049 PEST CONTROL PRODUCTS ACT

HARMFUL IF SWALLOWED

MAY CAUSE SKIN IRRITATION

MAY BE HARMFUL IF ABSORBED THROUGH SKIN

POTENTIAL SKIN SENSITIZER

CAUTION  **POISON**

NET CONTENTS: 10 L

TERAGRO

PO Box 192

LADYSMITH, BC

V9G 1A2

Teragro.com

(250) 924-8080

PRECAUTIONS

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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 Triclopyr 480 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.
- For broadcast treatment, do not enter or allow worker entry into treated areas during a restricted entry interval (REI) of 12 hours.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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

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

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

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

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

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

TOXICOLOGICAL INFORMATION

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. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

ENVIRONMENTAL PRECAUTIONS

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. The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or where the depth to the water table is shallow. 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. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms.

Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

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.

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ENVIRONMENTAL PRECAUTIONS

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DIRECTIONS FOR USE

GENERAL INFORMATION

Triclopyr 480 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, around farm buildings, military bases, industrial, manufacturing and storage sites.

Among the woody plants controlled at the lower rate are:

alder	elderberry	pinest
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	

For best results, applications of Triclopyr 480 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, re-sprouting 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.

GENERAL USE PRECAUTIONS

- Do not apply this product in a manner inconsistent with the label.
- Do not apply Triclopyr 480 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 Triclopyr 480 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

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

Ground Application

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

Use Precautions

Triclopyr 480 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 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 nozzle 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 Triclopyr 480 Herbicide 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 Triclopyr 480 Herbicide 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 Triclopyr 480 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 4 to 8 L of Triclopyr 480 Herbicide in a minimum of 200 L of water per hectare to ensure uniform coverage.

Broadleaved Weed Control

Mix 1 to 4 L of Triclopyr 480 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 Triclopyr 480 Herbicide in oil mixtures prepared and applied as described below. Use a diluent such as mineral oil or vegetable oil. Add Triclopyr 480 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 Triclopyr 480 Herbicide when treating basal sprouting and root suckering species or when applying during the dormant season. Use low nozzle pressure to minimize splattering 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 20 to 30 L of Triclopyr 480 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 prevent spraying at the ground line.

Streamline

To control woody plants, mix 20 to 30 L of Triclopyr 480 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 20 to 30 L of Triclopyr 480 Herbicide 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 TeraGro Inc. and are accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. TeraGro 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 TeraGro 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†, 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 Triclopyr 480 Herbicide label for the application rate to use.

RESTRICTED USE

Triclopyr 480 Herbicide 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 pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in any way that is inconsistent with the directions on the label.

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

DIRECTIONS FOR USE

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 aerial application on this label. **Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.** Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual developed by the Federal, Provincial, Territorial Committee on Pest Management and Pesticides. Do not apply to any body

of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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.

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The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at (250) 924-8080 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the precautions and application rates set out below.

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. The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or where the depth to the water table is shallow. 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	pinestems
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

Triclopyr 480 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 4 to 8 L of Triclopyr 480 Herbicide in a minimum spray volume of 30 L per hectare. Delivery systems suggested for use in applying Triclopyr 480 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

Triclopyr 480 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 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 TRICLOPYR 480 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.

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required. However, the best available application strategies which minimize off-site drift, including meteorological conditions (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 buffer zones for protection of sensitive aquatic habitats.

APPLICATION BY FIXED WING AIRCRAFT

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

Rate of Application Buffer Zones (m) from Aquatic Habitats (by Boom Height)*

Rate of Application (L Triclopyr 480 Herbicide/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	18	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 µm; range 224 to 787 µm)

*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.

Rate of Application (L Triclopyr 480 Herbicide/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

APPLICATION BY ROTARY AIRCRAFT

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

Rate of Application (L Triclopyr 480 Herbicide/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 µm; range 224 to 787 µm)

Rate of Application (L Triclopyr 480 Herbicide/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.

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required. However, the best available application strategies which minimize off-site drift, including meteorological conditions (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 buffer zones for protection of sensitive aquatic habitats.

APPLICATION BY FIXED WING AIRCRAFT

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

Rate of Application (L Triclopyr 480 Herbicide/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 µm; range 224 to 787 µm)

Rate of Application (L Triclopyr 480 Herbicide/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 µm; range 163 to 595 µm)

Rate of Application (L Triclopyr 480 Herbicide/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 µm; range 224 to 787 µm)

Rate of Application (L Triclopyr 480 Herbicide/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	59	93
>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 Triclopyr 480 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. Triclopyr 480 Herbicide 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 Triclopyr 480 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.

FOR THE CONTROL OF UNDESIRABLE WOODY PLANTS AND PERENNIAL BROADLEAVED WEEDS IN FOREST AND WOODLAND MANAGEMENT AREAS.

GENERAL INFORMATION

Triclopyr 480 Herbicide is recommended for the control of undesirable woody plants and annual and perennial broadleaved weeds in forest and woodland management sites. Applications may be made for woodland site preparation prior to natural or artificial regeneration of coniferous crop trees, for conifer release in plantations and established stands and for forest roadside vegetation control.

Among the woody plants controlled are:

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

♦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.

**For control of salal, refer to the Directions For Use - Broadcast Foliar section.

GENERAL USE PRECAUTIONS

- Do not apply this product in a manner inconsistent with the label.
- Do not apply Triclopyr 480 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 Triclopyr 480 Herbicide to drift onto them.
- Sensitive terrestrial and aquatic habitat must be protected (refer to Ground Application and/or Aerial Application sections on buffer zone requirements and spray drift control recommendations).

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 plants 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 a spotter plane, 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.

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

For treatments up to 8.0 L/ha do not feed lactating dairy animals hay which had been harvested within 60 days of treatment.

2. 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.

GROUND APPLICATIONS

WOODLAND MANAGEMENT SITES (500 hectares or less)

Triclopyr 480 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 hazards 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.

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 can be reduced by:

- Applying a coarse spray using large droplet producing nozzle tips
- The use of the Radiarc® or Nalco-Trol® or an equivalent drift control system or additive
- Keeping the spray boom as low as possible
- Using a spray pressure no greater than is required to obtain a proper spray pattern for adequate plant coverage
- For ground application, do not apply Triclopyr 480 Herbicide when wind velocity and direction pose a risk of spray drift. Apply when the 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 spray no higher than the tops of the target plants.

BROADCAST FOLIAR APPLICATIONS

General Information and Mixing Instructions

Apply Triclopyr 480 Herbicide mixed with water to make at least 100 litres per hectare of total delivery volume. In all cases, use equipment that will assure uniform coverage of the foliage of the plants to be controlled. An application system or additive should be used to prevent off-target spray particle drift. Nozzles or additives that produce larger droplets may require higher volumes of total delivery volume per hectare to obtain uniform coverage of the treated vegetation (See Directions for Use, Spray Drift Control).

Site Preparation

To control raspberry and woody species apply 3 to 8 L per hectare of Triclopyr 480 Herbicide in at least 100 L of total delivery volume. 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. Applications should be made following full leaf-out, but before autumn colouration. Conifer planting should be delayed until the following year.

Conifer Release

To release conifers, including white spruce, black spruce and jack pine, from raspberry and deciduous woody species, apply 3 to 6 L per hectare of Triclopyr 480 Herbicide with water in at least 100 L of total delivery volume. 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. Applications should be made in late summer, after conifers have hardened off (buds firm and sharp to the touch) and deciduous species are in full leaf, but prior to autumn colouration. Jack pine needle damage at rates greater than 4 L per hectare may be unacceptable. To minimize jack pine injury, applications should not be made while the jack pine trees are in the lammas or secondary growth stage. The probability of injury is greater when application is made in the same year as planting.

Salal Control

To provide control of salal, apply 8 L per hectare of Triclopyr 480 Herbicide in an oil carrier (diesel, kerosene or mineral) and at least 100 litres of total delivery volume. Applications should be made to avoid spraying any desirable conifers.

LOW VOLUME FOLIAR APPLICATIONS

General Information and Mixing Instructions

For conifer release and site preparation, use this technique with knapsack or backpack sprayers equipped with flat fan or solid cone nozzles. For site preparation, power sprayers and handguns may also be used. Do not apply the product with mist blowers.

Site Preparation

Mix 1 to 5 L of Triclopyr 480 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 leaf-out, but before autumn colouration. Conifer planting should be delayed until the following year.

Conifer Release

Mix 1 to 5 L of Triclopyr 480 Herbicide with 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 leaf-out, but before autumn colouration. Avoid spraying the conifers, especially if application occurs before hardening off (buds firm and sharp to the touch) or if they are in lammas growth stage (jack pine).

BASAL BARK APPLICATIONS

General Information and Mixing Instructions

For site preparation, regeneration release or thinning, use Triclopyr 480 Herbicide in oil mixtures prepared and applied as described below. Use a diluent such as mineral oil or vegetable oil. Add Triclopyr 480 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 Triclopyr 480 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 20 to 30 L of Triclopyr 480 Herbicide in enough oil to make 100 L of spray mixture. Apply with a backpack or knapsack sprayer using a flat fan or solid cone nozzle, or wick attachment. 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 to the ground line.

Streamline

To control woody plants, mix 20 to 30 L of Triclopyr 480 Herbicide in enough oil to make 100 litres of spray mixture. Apply with a backpack or knapsack sprayer using a flat fan or a solid cone nozzle or wick attachment. Apply sufficient spray to one side of stems less than 8 cm in basal diameter to form a band that is 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 12 cm in basal diameter. Apply 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 characteristic of slower growing, understory trees in older stands.

Apply at any time, including the winter months, except when snow or water prevent 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 Triclopyr 480 Herbicide 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. 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 prevent spraying to the ground line. Care must be taken to ensure treatment of all cut stems within a clump.

RESTRICTED USE

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 any 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 pesticide regulatory authorities about use permits.

DIRECTIONS FOR USE

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 aerial application on this label.

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

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

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual developed by the Federal, Provincial, Territorial Committee on Pest Management and Pesticides. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at (250) 924-8080 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the precautions and application rates set out below.

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. The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or where the depth to the water table is shallow. 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 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: AERIAL APPLICATION

Triclopyr 480 Herbicide may be applied by either fixed or rotary wing aircraft. Delivery systems suggested for use in applying Triclopyr 480 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 3.0 to 6.0 L of Triclopyr 480 Herbicide with water in a minimum of 30 L of total spray solution. 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 3.0 to 4.0 L per hectare of Triclopyr 480 Herbicide. Jack pine injury including needle damage, leader atrophy and scattered mortality may occur at application rates above 4.0 L per hectare or if seedlings are not completely dormant. Do not apply Triclopyr 480 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 lammas 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 3 to 8 L of Triclopyr 480 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 species may be planted in the season following treatment.

USE PRECAUTIONS

Triclopyr 480 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 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 TRICLOPYR 480 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 µm; range 163 to 595 µm)

Rate of Application (L Triclopyr 480 Herbicide/ha)	Buffer Zones (m) from Aquatic Habitats (by Boom Height)*			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m

4 L/ha	14	46	145	259
>4 to 6 L/ha	27	79	248	406
>6 to 8 L/ha	39	116	305	487

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

Rate of Application (L Triclopyr 480 Herbicide/ha)	Buffer Zones (m) from Aquatic Habitats (by Boom Height)*			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	6	24	72	144
>4 to 6 L/ha	12	37	107	214
>6 to 8 L/ha	17	50	147	265

*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: For a fixed wing aircraft, at an application rate of 6 L/ha, a boom height of 10 m, and a coarse droplet spectrum (VMD 351 µm), maintain a 79 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 µm; range 163 to 595 µm)

Rate of Application (L Triclopyr 480 Herbicide/ha)	Buffer Zones (m) from Aquatic Habitats (by Boom Height)*			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	7	15	77	175
>4 to 6 L/ha	12	21	147	278
>6 to 8 L/ha	18	27	190	368

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

Rate of Application (L Triclopyr 480 Herbicide/ha)	Buffer Zones (m) from Aquatic Habitats (by Boom Height)*			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	4	10	44	101
>4 to 6 L/ha	6	14	60	153
>6 to 8 L/ha	8	16	81	193

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 µm; range 163 to 595 µm)

Rate of Application (L Triclopyr 480 Herbicide/ha)	Buffer Zones (m) from Terrestrial Habitats (by Boom Height)*			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	19	40	81	124
>4 to 6 L/ha	29	53	107	174
>6 to 8 L/ha	35	64	140	232

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

Rate of Application (L Triclopyr 480 Herbicide/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	29	62	96
>4 to 6 L/ha	19	38	77	124
>6 to 8 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 Triclopyr 480 Herbicide/ha)	Buffer Zones (m) from Terrestrial Habitats (by Boom Height)*			
	≤ 5 m	> 5-10 m	>10-20 m	>20-30 m
4 L/ha	15	23	60	100
>4 to 6 L/ha	18	27	74	128
>6 to 8 L/ha	21	30	90	176

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

Rate of Application (L Triclopyr 480 Herbicide/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	19	49	81
>4 to 6 L/ha	14	22	58	100
>6 to 8 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 Triclopyr 480 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. Triclopyr 480 Herbicide should not be applied at a boom height greater than 30 m above the target vegetation.
4. 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 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 Triclopyr 480 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, Triclopyr 480 Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Triclopyr 480 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 Triclopyr 480 Herbicide or other Group 4 herbicide with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or integrated weed management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact TeraGro Inc.

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