

# Range & Pasture

GROUP 4 HERBICIDE

This component must only be used in Reclaim II Herbicide.

**COMMERCIAL** 

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

ACTIVE INGREDIENT: 2,4-D, present as 2-ethylhexyl ester 660 g /L Emulsifiable concentrate 660 g

REGISTRATION NO. 30063 PEST CONTROL PRODUCTS ACT



WARNING - SKIN IRRITANT POTENTIAL SKIN SENSITIZER

NET CONTENTS: 1 L - 450 L

Corteva Agriscience Canada Company Suite 240, 115 Quarry Park Rd. SE Calgary, AB T2C 5G9 1-800-667-3852

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# **PRECAUTIONS**

# KEEP OUT OF REACH OF CHILDREN

Causes skin irritation. DO NOT get on skin. Harmful if swallowed. Potential skin sensitizer.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Apply only when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

#### PROTECTIVE CLOTHING AND EQUIPMENT

# All with Groundboom and Aerial Equipment

- During mixing, loading, applying, clean-up and repair, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes. Rinse gloves before removal.
- Gloves are not required during application when the applicator is in an enclosed tractor or enclosed airplane cockpit.
- No human flaggers permitted.

# **Application Using Handheld Equipment**

- During mixing, loading, applying, clean-up and repair, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes.
- Refer to Directions for Use section for use-specific application equipment that may be required.
- For applications using mechanically-pressurized handguns:
  - Mixers/loaders/applicators must also wear a respirator if they will be handling more than
     7.6 L of Reclaim II B Herbicide per day.
  - o DO NOT handle more than 12.1 L of Reclaim II B Herbicide per day.

Refer to Directions for Use section for any additional requirements.

#### **MIXING**

#### **Transfer System**

For containers larger than 20 L, use a transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

When handling more than 400 L of Reclaim II B Herbicide per day, workers must also use a closed system.

#### **OPERATOR USE PRECAUTIONS**

- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands before eating, drinking, using tobacco or using the toilet.
- If herbicide penetrates clothing remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.
- After using this product, remove clothing and launder separately, and promptly and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separate from household laundry.
- After work, remove all clothing and shower using soap and water.

#### **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 a 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

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. This product may cause mild irritation to the eyes. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea. Treat symptomatically.

# AGRICULTURAL CHEMICAL

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

#### **ENVIRONMENTAL PRECAUTIONS**

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

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.

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**

To prevent contamination, store this product away from food or feed. This product must be stored away from fertilizers, seeds, insecticides, fungicides or other herbicides intended for use on 2,4-D sensitive crops. If this product is exposed to temperatures below -20°C, it should be warmed to at least 5°C and mixed thoroughly before using.

#### **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/territorial 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/ 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)



# Reclaim™ II Herbicide

# Range & Pasture

GROUP	4	HERBICIDE
GROUP	2	HERBICIDE

Reclaim II Herbicide provides extended control of western snowberry (buckbrush), prairie wild rose, shrubby cinquefoil, silverberry (wolf willow), Canada thistle, dandelion, pasture sage (fringed sage) and prairie sage in rangeland and permanent pasture.

# **COMMERCIAL**

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

This co-package contains:

Reclaim II A Herbicide

REGISTRATION NO. 30062 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT:Aminopyralid, present as potassium salt
Metsulfuron–methyl

52.50% 9.45%

9.45

Warning, contains the allergen sulfites

Wettable granules

Reclaim II B Herbicide

REGISTRATION NO. 30063 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: 2,4-D, present as 2-ethylhexyl ester:

Emulsifiable concentrate

660 g/L



# WARNING – EYE AND SKIN IRRITANT POTENTIAL SKIN SENSITIZER

NET CONTENTS: Reclaim II A Herbicide 0.1 kg - 450 kg

Reclaim II B Herbicide 1 L - 450 L

# **Corteva Agriscience Canada Company**

Suite 240, 115 Quarry Park Rd. SE Calgary, AB T2C 5G9 1-800-667-3852

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# **PRECAUTIONS**

#### KEEP OUT OF REACH OF CHILDREN

Causes skin irritation. DO NOT get on skin. Harmful if swallowed. Potential skin sensitizer. May irritate eyes. Avoid contact with eyes.

**Worker reentry** – Do not enter or allow worker entry to treated areas during the restricted entry interval (REI) of 12 hours.

# PROTECTIVE CLOTHING AND EQUIPMENT

### All with Groundboom and Aerial Equipment

- During mixing, loading, applying, clean-up and repair, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes. Rinse gloves before removal.
- Gloves are not required during application when the applicator is in an enclosed tractor or enclosed airplane cockpit.
- No human flaggers permitted.

# **Application Using Handheld Equipment**

- During mixing, loading, applying, clean-up and repair, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes.
- Refer to Directions for Use section for use-specific application equipment that may be required.
- For applications using mechanically-pressurized handguns:
  - Mixers/loaders/applicators must also wear a respirator if they will be handling more than
     7.6 L of Reclaim II B Herbicide per day.
  - o DO NOT handle more than 12.1 L of Reclaim II B Herbicide per day.

Refer to Directions for Use section for any additional requirements.

#### **MIXING**

# **Transfer System**

For containers larger than 20 L, use a transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

When handling more than 400 L of Reclaim II B Herbicide per day, workers must also use a closed system.

# **SPRAY DRIFT PRECAUTIONS**

Apply only when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

# **OPERATOR USE PRECAUTIONS**

- Wear freshly laundered clothing and clean protective equipment daily.
- · Rinse gloves before removal.
- Wash hands before eating, drinking, using tobacco or using the toilet.
- If herbicide penetrates clothing remove immediately; then wash thoroughly and put on clean clothing.
   Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.
- After using this product, remove clothing and launder separately, and promptly and thoroughly wash
  hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal
  protective clothing and equipment. If no such instructions for washables are provided, use detergent
  and hot water. Keep and wash personal protective equipment separate from household laundry.
- After work, remove all clothing and shower using soap and water.
- Avoid breathing spray mist.

#### 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 a 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

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. This product may cause mild irritation to the eyes. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea. Treat symptomatically.

# **AGRICULTURAL CHEMICAL**

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

# **ENVIRONMENTAL PRECAUTIONS**

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

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.

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**

To prevent contamination, store this product away from food or feed. This product must be stored away from fertilizers, seeds, insecticides, fungicides or other herbicides intended for use on 2,4-D sensitive crops.

#### **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/territorial 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/ territorial regulatory agency. Contact the manufacturer and the provincial/ territorial regulatory agency in case of a spill, and for clean-up of spills.

# **GENERAL INFORMATION**

Reclaim II Herbicide, applied as a post emergent spray, controls annual and perennial broadleaf weeds, invasive plants and shrubs in rangeland and permanent pasture. **Read all precaution statements before using this product.** For more information contact your local Corteva Agriscience Canada Company representative (1-800-667-3852).

For best results, apply Reclaim II Herbicide to plants that are actively growing at time of application.

# **GENERAL USE PRECAUTIONS**

Reclaim II Herbicide is selective and highly active against broadleaf and woody plants. This product is recommended for use on areas where loss of broadleaf forage plants, including legumes, can be tolerated. Injury to or loss of desirable plants may result unless the following precautions are observed. Do not apply or drain or flush equipment on or near desirable vegetation or on areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots.

- Do not apply more than 230 grams per hectare of Reclaim II A Herbicide per annual growing season in rangeland and pasture.
- Only one application per growing season is permitted.
- Areas treated for 24 months of control should be treated no more than every second year.
- Apply Reclaim II Herbicide with a recommended surfactant.
- Reclaim II Herbicide cannot be applied on domestic or commercial turf grass.
- Hay cut from treated grass, in the year of application, should only be used on-farm to feed livestock.
   The manure or compost from animals fed the treated hay should only be used on registered use sites where the loss of broadleaf forage plants, including legumes, can be tolerated. Contact Corteva Agriscience Canada Company for additional information on sensitive broadleaf plant species.

### **Sensitive Plants**

The Reclaim II Herbicide works primarily through uptake by plant foliage and translocation throughout the plant. However, secondary herbicide activity may occur through soil update of the aminopyralid component of the Reclaim II Herbicide. Very small amounts of aminopyralid can kill or damage sensitive broadleaf plants. Only spray pastures if injury to existing forage can be tolerated. Care should be taken to avoid spraying desirable broadleaved plants, during both growing and dormant periods.

Avoid application within the drip line (outermost edge of the tree canopy) of desirable coniferous and deciduous trees unless injury can be tolerated. Use special caution when using aminopyralid-based products around species with extensive lateral root systems, shallow rooting species and those that propagate vegetatively through layering.

Clippings or hay from vegetation which has been treated with aminopyralid should not be used for composting or mulching. Aminopyralid residues pass through animals unchanged and are still herbicidally active. The manure from animals grazing treated areas or fed treated hay should not be used around susceptible plants. Do not transfer livestock from treated grazing areas onto broadleaf crop areas without first allowing 3 days of grazing on untreated grass pasture.

Vegetables, flowers, grapes, fruit trees and other desirable plants are sensitive to 2,4-D even in minute quantities. Care should be taken to avoid spraying these types of plants or allowing spray mist to drift onto these plants during both their growing and dormant periods. At higher temperatures, vaporization may cause injury to susceptible plants growing nearby. This product may cause damage to lawns or pastures if applied before the grass is well established. In addition, most legumes may be damaged or killed.

If applying this product using a handheld sprayer, do not directly spray or allow the spray to drift onto ornamentals or gardens.

Do not spray roots of trees and ornamentals.

# **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 <a href="https://www.corteva.ca">www.corteva.ca</a> for information before applying any tank mix that is not specifically recommended on this label.

# **DIRECTIONS FOR USE**

READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL.

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 suppliers or aquatic habitats by cleaning of equipment or disposal of wastes.

**NOTE:** Local conditions may affect the use of herbicides. Provincial agricultural authorities issue recommendations to fit local conditions. Be sure that use of this product conforms to all applicable regulations.

# Field sprayer application

**DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

#### 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.

#### RANGELAND AND PERMANENT PASTURE

Apply Reclaim II Herbicide to rangeland and permanent pasture when targeted undesirable vegetation is actively growing. Weeds hardened off by drought stress may not be adequately controlled or suppressed and regrowth may occur. Only weeds and shrubs present at the time of application will be controlled. Weeds and shrubs that emerge following application will not be controlled. Apply using aerial equipment with a minimum of 30 litres spray volume/ha or ground equipment with a minimum of 200 L/ha of total spray volume, that will assure uniform coverage. For better coverage use 50 litres/ha for aerial application. Follow all instructions under Mixing Methods for surfactant requirements and order of mixing.

# APPLICATION RATES RECLAIM II HERBICIDE – SEASON LONG CONTROL

Herbicide Rate		Broadleaf Weeds	
Reclaim II A	absinth wormwood	field scabious	prickly lettuce
135 g/ha	annual sunflower	flixweed	prostrate pigweed
	annual sowthistle	goat's beard	redroot pigweed
Reclaim II B	ball mustard	green smartweed	Russian knapweed
1.7 L/ha	biennial wormwood	gumweed	Russian thistle
	bluebur	hairy galinsoga	scentless chamomile
	bull thistle	hawkweed	shepherd's purse
	burdock	hemp-nettle	spotted knapweed
	Canada fleabane	hedge bindweed	stinkweed
	Canada goldenrod	hoary cress	stork's bill
	Canada thistle	horse-nettle	sweetclover
	chickweed	kochia*	tall buttercup
	clover	lady's-thumb	tartary buckwheat
	cocklebur	lamb's-quarters	tumbleweed
	common groundsel	musk or nodding thistle	vetch
	common ragweed	narrow-leaved hawk's beard	volunteer canola
	common tansy	oak-leaved goosefoot	western snowberry
	corn spurry	oxeye daisy (pre-bud)	(buckbrush)
	cow cockle	pasture sage	wild buckwheat
	dandelion	perennial sow-thistle	wild mustard
	dog mustard	plantain	wild radish
	field bindweed (top	plumeless thistle	yellow star-thistle
	growth only)		
	field pepper-grass		
		Shrubs	
		silverberry	

<sup>\*</sup>Non ALS resistant biotypes

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds	
Reclaim II A	cudweed	pussy toes
170 g/ha	curly dock	Scotch thistle
	fireweed	volunteer alfalfa
Reclaim II B	hoary alyssum	western ragweed
1.7 L/ha	perennial pepperweed	wild carrot
	prairie sage	wild strawberry
	Shrubs	
	shrubby cinquefoil	prairie wild rose

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds		
Reclaim II A	baby's breath	rush skeletonweed	
200 g/ha	black henbane	wild caraway	
	cleavers	wild parsnip	
Reclaim II B			
1.7 L/ha			

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds	
Reclaim II A 230 g/ha	brown knapweed diffuse knapweed** hound's tongue	orange hawkweed*** purple loosestrife whitetop (hoary cress)
Reclaim II B 1.7 L/ha	Japanese knotweed mullein	yellow hawkweed***

<sup>\*\*</sup>Apply Reclaim II A at 230 g/ha + Reclaim II B at 1.7 L/ha when plants are actively growing with the optimum time of application occurring from rosette to the bolting stages of development or in the fall. Plants will be controlled by midsummer and fall application even though plants may not show any changes in form or stature the year of application.

# RECLAIM II HERBICIDE - CONTROLLED UP TO 12 MONTHS AFTER APPLICATION

Herbicide Rate	Broadleaf Weeds	
Reclaim II A	Canada thistle*	scentless chamomile
135 g/ha	dandelion	wild strawberry
Reclaim II B 1.7 L/ha		

<sup>\*</sup>Removal of competing vegetation may result in new Canada thistle shoots emerging.

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds	
Reclaim II A 170 g/ha	prairie sage Shrubs	
170 g/11a		
Reclaim II B	shrubby cinquefoil	Western snowberry (buckbrush)
1.7 L/ha	Weeds	suppressed at this rate
	pasture sage	prairie wild rose

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds	
Reclaim II A 200 g/ha	pasture sage prairie wild rose	
	Shrubs	
Reclaim II B 1.7 L/ha	silverberry (wolf willow)	

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds	
Reclaim II A 230 g/ha	orange hawkweed•	
Reclaim II B 1.7 L/ha		

<sup>\*</sup>Apply Reclaim II A at 230 g/ha + Reclaim II B at 1.7 L/ha to plants in the bolting stage of development

<sup>\*\*\*</sup>Apply Reclaim II A at 230 g/ha + Reclaim II B at 1.7 L/ha to plants in the bolting stage of development

# RECLAIM II HERBICIDE - CONTROLLED UP TO 24 MONTHS AFTER APPLICATION

Herbicide Rate	Broadleaf Weeds	
Reclaim II A 135 g/ha	dandelion	wild strawberry
Reclaim II B 1.7 L/ha		

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds	
Reclaim II A	pasture sage (fringed sage)	
170 g/ha	Weeds suppressed up to 2	4 months After Application
Reclaim II B	Canada thistle*	
1.7 L/ha		rubs
	prairie wild rose	

<sup>\*</sup>Removal of competing vegetation may result in new Canada thistle shoots emerging.

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds	
Reclaim II A 200 g/ha	Canada thistle*	
	Shrubs	
Reclaim II B 1.7 L/ha	silverberry (wolf willow) prairie wild rose western snowberry (buckbrush)	

<sup>\*</sup>Removal of competing vegetation may result in new Canada thistle shoots emerging.

Herbicide Rate	Plants Listed Above Plus: Broadleaf Weeds				
Reclaim II A 230 g/ha	prairie sage				
200 9/114	Shrubs				
Reclaim II B 1.7 L/ha	shrubby cinquefoil				

# TANK MIX COMBINATIONS WITH RECLAIM II HERBICIDE

Herbicide Rate	Weeds Controlled and Notes		
Reclaim II A 135- 230 g/ha	To be used in Western Canada only.		
Reclaim II B 1.7 L/ha	<ul> <li>Refer to the Grazon™ XC Herbicide label for additional weeds controlled. Maximum of one application per year.</li> <li>TANK-MIX SPECIFIC PRECAUTIONS AND RESTRICTIONS:         <ul> <li>During mixing, loading, applying, clean-up and repair, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes. Protective eyewear (goggles or face shield) is also required when mixing and loading.</li> <li>For applications using mechanically-pressurized handguns:</li></ul></li></ul>		
Grazon™ XC Herbicide 2.47 L/ha			

# **Preharvest/Grazing Intervals**

- There is no restriction on livestock (except lactating dairy animals) grazing in treated areas.
- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Allow 3 days of grazing on an untreated pasture (or feed untreated hay) before transferring livestock to areas where sensitive broadleaf crops may be grown.

#### **MIXING METHODS**

If Reclaim II B is exposed to temperatures below -20°C, it should be warmed to at least 5°C and mixed thoroughly before using.

# **Mixing with Water**

- 1. Fill the spray tank 3/4 full of clean water
- 2. Add the required amount of Reclaim II A 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 Reclaim II B Herbicide with the agitation running.
- 4. Add the recommended surfactant (such as Gateway Adjuvant, AG-SURF, AGRAL 90 or CITOWETT PLUS) at 0.2% v/v or 2 litres per 1000 litres of spray solution
- 5. Add antifoaming agent, if required.

# **APPLICATION METHODS**

# INVASIVE PLANT MANAGEMENT

# **Invasive Plant Management Practices**

The Reclaim II Herbicide can be applied postemergence as a broadcast spray or as a spot/strip application to control invasive plants. Post emergence applications should be made before bud stage or early flowering, unless otherwise specified. Best results are obtained when the spray volume is sufficient to provide uniform coverage of treated plants. For optimum uptake and translocation of the herbicide, avoid mowing, haying, shredding or disturbing treated areas for at least 7 days following application.

The Reclaim II Herbicide can be an important component of integrated vegetation management programs designed to restore desired plant communities. To maximize and extend the benefits of weed control provided by the Reclaim II Herbicide, it is important that other vegetation management practices, including proper grazing management, fertilization, prescribed fire, mechanical mowing, hand-pulling, bio control and other methods, be used in appropriate sequences and combinations to further alleviate the adverse effects of invasive plants on desirable plant species and to promote development of desired plant communities. Consult local agriculture and land management resource specialists and/or invasive plant councils. These organizations can provide guidance on best management practices and the development of integrated vegetation management programs. Rapid response to the early detection of new invasive plants is a key invasive plant management strategy. Containment, eradication and control are essential for the management of spreading and established invasive plants.

# **Rangeland and Pasture Areas**

Make only one application per year for control of invasive plants. For best results, invasive plants should be treated when they are actively growing and under conditions favourable for growth. The Reclaim II Herbicide also provides preemergence control of germinating seeds and control of emerged seedlings of susceptible plants following application.

To reduce the spread of invasive plants, it is important to treat identified invasive plants in the target area while observing required spray buffer zones for broadcast applications. Return when the wind is blowing from the opposite direction to complete spraying the targeted plant population.

# **Individual Plant or Spot/Strip Applications**

An important component of Invasive Plant Management programs is early detection and eradication. The instructions for individual plant or spot or strip applications can be used to stop the spread of invasive plants. This is particularly important in riparian areas, where spot application is preferable to broadcast treatment. Use the mixing charts and directions listed under the APPLICATION METHODS section below to mix Reclaim II A and Reclaim II B with enough water to make the correct amount of spray solution. Use equipment designed for individual plant or spot/strip applications, such as a backpack sprayer or hose and handgun, to spray susceptible invasive plants. Thoroughly and uniformly wet the foliage of all target plants but not to the point of runoff. Direct spray away from aquatic habitats and non-target terrestrial plants.

**Mixing Chart** 

Reclaim II A Herbicide	Reclaim II B Herbicide	Surfactant*	Spray Solution (water and herbicide)
2 – 2.3 grams	14.5 – 17 mL	20 mL	10 litres
20 – 23 grams	145 – 170 mL	200 mL	100 litres
200 -230 grams	1450 – 1700 mL	2000 mL	1000 litres

<sup>\*</sup> Recommended surfactant such as Gateway Adjuvant, Ag-Surf, Agral 90 or Citowett Plus.

Use the higher rate in the rate range when growing conditions are less than favourable or when the plant foliage is tall and dense.

# **Broadcast Treatment (Ground and Aerial Applications)**

Applications of Reclaim II Herbicide may be made once grasses are well-established (have developed a good secondary root system and show good vigour).

# (1) Ground Application

Using ground equipment, apply Reclaim II Herbicide as a broadcast treatment to control listed broadleaf weeds, invasive plants and shrubs. Apply Reclaim II Herbicide at the recommended rates in a minimum of 200 L/ha of total spray volume. Use 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. Follow all instructions under Mixing Methods for surfactant requirements and order of mixing.

# (2) Aerial Application

Use Reclaim II Herbicide as a broadcast treatment by air to control listed broadleaf weeds, invasive plants and shrubs. Apply Reclaim II Herbicide at the recommended rates in a minimum spray volume of 30 L/ha by air. For better coverage use 50 litres/ha. Use 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. Follow all instructions under Mixing Methods for surfactant requirements and order of mixing.

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 swath marking devices.

# **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticides Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

# **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. Do not use human flaggers.

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

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 should be laundered regularly.

# **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 agricultural representative. Application of this specific product must meet and/or conform to the following: Volume: Apply Reclaim II Herbicide at the recommended rates in a minimum spray volume of 30 L/ha by air. For better coverage use 50 litres/ha.

Avoid spray drift at the application site. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. Users are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications:

- 1. The distance of the outer most operating nozzles on the boom must not exceed 75% of the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

# **Sprayer Clean-Out Instructions**

To avoid injury to desirable plants, thoroughly clean equipment used to apply this product before re-use or using it to apply other chemicals.

- 1. Immediately after spraying, completely drain the sprayer tank. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
- 2. First rinse:
  - Spray the inside of tank with clean water and fill the sprayer with at least one tenth of the spray tank volume.
  - Agitate and circulate for 15 minutes, and flush through booms and hoses.
  - Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - Drain tank completely.
- 3. Second rinse:
  - Fill the tank with clean water.
  - Add All Clear Spray Tank Decontaminator, or Clean-Out Spray Tank Cleaner, or 1 L of household ammonia (containing a minimum of 3 % ammonia) per 100 L of water, or similar tank cleaning agent as per manufacturer's recommendations while filling the tank with clean water.
  - Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full. Allow to stand for 15 minutes with agitation. Flush the solution out of the spray tank through the spray booms. Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
  - If possible, let the solution stand in the sprayer tank and booms for an extended period of time, overnight if possible.

- After flushing the boom and hoses, drain tank completely.
- Remove nozzles and screens and clean separately with a cleaning agent or an ammonia solution (100 mL in 10 L water).

# 4. Third rinse:

- Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume.
- Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
- Drain tank completely.

**Do not** use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty odour which may cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

#### **SPRAY BUFFER ZONES**

A spray buffer zone is NOT required for:

• uses with hand-held application equipment permitted on this label.

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) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Сгор		Spray Buffer Zones (metres) Required for the Protection of:	
		S.G.P	Freshwater Habitat	Terrestrial habitat
Field sprayer	Permanent pasture and rangeland		10	15
Aerial	Permanent pasture and rangeland	Fixed wing (coarse)	175	750
		Rotary wing (coarse)	150	650
		Fixed wing (coarse to very coarse)	125	475
		Rotary wing (coarse to very coarse)	100	325
		Fixed wing (very coarse)	100	375
		Rotary wing (very coarse)	90	225
		Fixed wing (very coarse to extremely coarse)	80	250
		Rotary wing (very coarse to extremely coarse)	70	175

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 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.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Reclaim II Herbicide contains Group 2 and Group 4 herbicides. Any weed population may contain or develop plants naturally resistant to Reclaim II Herbicide or other Group 2 and/or Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. 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 Reclaim II Herbicide or other Group 2 and/or 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 <a href="https://www.corteva.ca">www.corteva.ca</a>.

**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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