

**GROUP 4 HERBICIDE**

## PROBE™ XL Herbicide

WETTABLE GRANULES

HERBICIDE

AGRICULTURAL

PROBE XL Herbicide controls broadleaf weeds in cereals, field corn, reduced tillage (prior to seeding and reduced tillage fallow), pastures and rangeland grasses, crop-free land (summerfallow and stubble), red fescue, canary seed (*Phalaris canariensis*), seedling grasses grown for seed and forage.

### GUARANTEE:

Dicamba, present as the sodium salt ..... 70 % a.e.

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

**CAUTION**



**POISON**

**CAUTION: EYE IRRITANT**

Warning, contains the allergen sulfites.

REGISTRATION NO. **28895**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 kg – 25 kg**

**Syngenta Canada, Inc.**  
140 Research Lane, Research Park  
Guelph, ON N1G 4Z3  
Telephone: 1-877-964-3682

Label

## NOTICE TO USER

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

## FIRST AID

**IF POISONING IS SUSPECTED, IMMEDIATELY** contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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.

**In swallowed**, call a poison control centre **IMMEDIATELY** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

## TOXICOLOGICAL INFORMATION

There is no specific antidote if this product is ingested. Dicamba may cause severe irritation to the eyes, and irritation to the skin and mucous membranes. Symptoms of exposure to dicamba may include dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion and loss of voice. Treat symptomatically.

## PRECAUTIONS

1. KEEP OUT OF REACH OF CHILDREN.
2. Harmful if swallowed or absorbed through the skin.
3. Avoid contact with skin, eyes and clothing.
4. Wear safety goggles and coveralls during mixing/loading. Wear chemical resistant gloves and coveralls during mixing/loading, clean-up and repair operations. Applicators must wear coveralls over a long-sleeved shirt, long pants and chemical-resistant gloves. DO NOT enter treated fields until 12 hours after application.

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

website at [www.croplife.ca](http://www.croplife.ca).

## **ENVIRONMENTAL HAZARDS**

TOXIC to aquatic organisms and non-target terrestrial plants.

Observe buffer zones specified under DIRECTIONS FOR USE.

### **Surface Runoff:**

To reduce runoff from treated areas into aquatic habitats consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include but are not limited to heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as clay).

Potential for contamination of aquatic areas as a result of runoff may be reduced by including an untreated vegetation strip between the treated area and the edge of the water body.

Avoid applying this product when heavy rain is forecasted.

### **Leaching:**

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

## **STORAGE**

Store product in its original container only, away from other pesticides, fertilizer, food or feed. Keep the container closed to prevent spills and contamination. Keep package dry at all times.

## **FOR DISPOSAL OF UNUSED, UNWANTED PRODUCT**

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.

### **CONTAINER DISPOSAL:**

#### **For 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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

Product names marked ® or ™ are registered trademarks of a Syngenta Group Company

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Pamphlet

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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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

## **GENERAL PRECAUTIONS**

1. Do not apply on or near desirable trees or plants, or in locations where chemical may be washed into contact with their roots.
2. Apply PROBE XL Herbicide when air temperature is between 10 and 25 °C for best results. Do not apply when there is a risk of severe fall in night temperature after use.
3. Do not contaminate domestic or irrigation waters. Thoroughly clean application equipment after use.
4. Do not treat areas where movement of the chemical into the soil or surface washing may

bring PROBE XL Herbicide into contact with the roots of desirable plants.

5. Crop damage can occur if the chemical is applied at any time other than the recommended crop stage.

**NOTE:** Crop injury may occur if application is made to crops that have been stressed by abnormally hot, humid or cold weather conditions, frost, low fertility, drought, water saturated soil, compacted soil, previous pesticide applications, disease or insect damage etc. However, crop injury that may occur is usually offset by the weed control obtained.

6. Do not use additives such as oil, wetting agents, emulsifiers, detergents, spreaders, sticking agents, or dispersing agents with PROBE XL Herbicide on crops unless otherwise specified.
7. For information on feeding and grazing of beef and dairy cattle on treated vegetation refer to the appropriate grazing, haymaking and slaughter restrictions.
8. Read and follow the label instructions for the tank-mix products noting pertinent recommendations, directions for use, restrictions or additional weeds controlled.
9. To avoid subsequent injury to other crops, thoroughly clean application equipment immediately after spraying. Ensure that all traces of the product are removed. See section on suggested procedure for cleaning spray equipment.

### **SPRAY DRIFT PRECAUTIONS:**

PROBE XL Herbicide may cause injury to desirable trees and plants, particularly soybeans, flowers, fruit trees, grapes, ornamentals, peas, potatoes, tomatoes and tobacco and other broadleaf crops especially in their developmental and growing stage. Follow these precautions when spraying PROBE XL Herbicide in areas where sensitive crops are grown.

1. Avoid making applications where spray particles may be carried by air currents onto nearby sensitive crops. Apply when wind is less than 15 km/hr. Do not apply during periods of dead calm or when weather conditions may cause drift from target areas to adjacent sensitive crops. Leave an adequate buffer zone between areas to be treated and sensitive plants. When tankmixed with Peak Herbicide, a buffer zone of 20 meters should be observed, unless a greater buffer zone is indicated in the Buffer Zone section of this label.
2. Apply with coarse spray droplets since they are less likely to drift than fine spray droplets. Select nozzles which minimize the amount of fine spray particles. Apply in a minimum of 220 L/ha spray volume and a maximum pressure of 150 kPa unless otherwise required by the nozzle manufacturer.
3. Do not apply PROBE XL Herbicide when the temperature on the day of application is expected to exceed 30 °C as drift is more likely to occur.
4. Ensure that spray equipment used to apply PROBE XL Herbicide is properly cleaned before reusing to apply any other chemicals.
5. Avoid spraying under conditions of high humidity or fog to prevent drift to adjacent crops.

### **CLEANING SPRAY EQUIPMENT:**

#### **PROBE XL Herbicide alone or with 2,4-D or MCPA**

If you have used PROBE XL Herbicide alone or PROBE XL Herbicide in a tank-mix with 2,4-D or MCPA, to clean the spray equipment follow these steps:

1. Thoroughly hose down the inside and outside of equipment surfaces while filling the spray tank half-full with water. Flush, by operating the sprayer, until the system is purged of the rinse water.



2. Fill the tank with water, adding 1 L of household ammonia for every 100 L of water. Operate the spray pump to circulate the ammonia solution through the sprayer solution for 15-20 minutes and discharge a small amount of the ammonia solution through the spray boom and nozzles.
3. Flush the solution out of the spray tank through the boom.
4. Remove the nozzles and screens and flush the system with two tanks full of water.

### **PROBE XL Herbicide with other Herbicides**

To clean spray equipment used to apply PROBE XL Herbicide as a tank-mix with wettable powders (WP), emulsifiable concentrates (EC) or other types of water-dispersible formulations, follow these steps: (Note that if you use PROBE XL Herbicide tank-mixes with water-dispersible formulation, you must add detergent to the rinse water.)

1. Thoroughly hose down the inside and outside of equipment surfaces while filling the spray tank half-full with water. Flush, by operating the sprayer, until the system is purged of the rinse water.
2. Fill tank with water while adding 1 kg of detergent for every 150 litres of water. Operate the pump to circulate the detergent solution through the sprayer system for 5-10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
3. Flush the detergent solution out of the spray tank through the boom.
4. Repeat step 1 and follow steps 2 and 3.

### **DIRECTIONS FOR USE**

**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) medium/coarse classification (according to the appropriate buffer zone table). Boom height must be 60 cm or less above the crop or ground.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams reservoirs and wetlands), estuarine or marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

#### **Surface Runoff:**

To reduce runoff from treated areas into aquatic habitats consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include but are not limited to heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as clay).

Potential for contamination of aquatic areas as a result of runoff may be reduced by including an untreated vegetation strip between the treated area and the edge of the water body.

Avoid applying this product when heavy rain is forecasted.

### **Leaching:**

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

1. Following treatment with PROBE XL Herbicide plus any other herbicide tank-mix: Do not graze or harvest for livestock feed prior to crop maturity; sufficient data are not available to support such use.
2. Following treatment with PROBE XL Herbicide or PROBE XL Herbicide plus 2,4-D, follow these restrictions:

### **Grazing Restrictions**

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.

### **CEREALS (Not Underseeded to Legumes): (Sprint & Winter Wheat, Spring Barley , Spring Rye & Oats):**

1. Spray when weeds are at the 2 to 3 leaf stage and rosettes are less than 5 cm across.
2. Use the higher rate when treating more mature weeds or dense vegetative growth.
3. Crop damage can occur if application is made other than at the recommended crop stage.
4. Do not apply PROBE XL Herbicide or PROBE XL Herbicide tankmixes if the crop is underseeded to legumes.

### **Ground Application:**

Apply PROBE XL Herbicide alone or in tankmix in at least 110 litres of water/ha.

### **Aerial Application (Western Canada ONLY):**

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 a 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.

### **Aerial Application 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 during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 15 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) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

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 a shelter-belt) or aquatic habitat.

### **Aerial Application 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 label recommendations on the ground application section. 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 1-87-SYNGENTA (1-877-964-3682) or obtain technical advice from the distributor or your provincial agricultural representative.

1. Apply PROBE XL Herbicide or PROBE XL Herbicide tankmixes by air in a minimum of 20 litres of water/ha.
2. Apply PROBE XL Herbicide alone at 0.16 – 0.2 kg/ha or tankmix PROBE XL Herbicide with the recommended rate of phenoxy herbicides as specified on this label.
3. Apply when wind is less than 15 km/hr. Do not apply during periods of dead calm or when weather conditions may cause drift from target areas to adjacent sensitive crops.
4. Do not apply at a nozzle pressure above 200 kPa.
5. Do not apply when the wind is blowing towards a nearby sensitive garden, crop or shelterbelt.
6. Do not use any additives with PROBE XL Herbicide unless otherwise specified.

**Weeds Controlled**

<b>RATE PER HECTARE/ PROBE XL HERBICIDE</b>	<b>TANK MIX PARTNER<sup>1</sup></b>	<b>WEEDS CONTROLLED</b>
0.16 – 0.2 kg	PROBE XL Herbicide Used alone	Canada thistle ( <b>top growth only</b> ) cleavers ( <b>higher rate only</b> ) corn spurry cow cockle green smartweed lady's thumb perennial sow-thistle ( <b>top growth only</b> ) tartary buckwheat wild buckwheat
0.16 – 0.2 kg	2,4-D amine <b>OR</b> MCPA amine <b>OR</b> MCPA K	<i>All of the above plus:</i> burdock ( <b>young seedlings</b> ) cocklebur flixweed hemp-nettle <sup>2</sup> kochia redroot pigweed Russian pigweed Russian thistle shepherd's-purse volunteer canola <sup>3</sup> volunteer sunflower <sup>4</sup> wild radish and other phenoxy susceptible weeds
0.16 kg	Sencor <sup>†</sup> <b>OR</b> Lexone <sup>†</sup> DF	<i>All of the above plus:</i> chickweed corn spurry hemp-nettle <sup>2</sup> stinkweed volunteer sunflower <sup>4</sup>
0.16 kg	Ally <sup>†</sup>	<i>All of the above plus:</i> perennial sow-thistle ( <b>top growth only</b> ) volunteer canola <sup>3</sup> wild buckwheat

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> Use PROBE XL Herbicide + MCPA K for hemp-nettle control. Apply at the 2 to 3 leaf stage of weed for best control. Hemp-nettle may not be controlled if application is made at a more advanced stage of crops and weeds.

<sup>3</sup> Best results will be obtained if application is made prior to bolting of canola, when this weed is at the 2 to 4 leaf stage.

<sup>4</sup> Depending on the growing conditions, control may be slightly delayed.

**APPLICATION DIRECTIONS**

**PROBE XL Herbicide** may be applied to:

- Spring Wheat
- Spring Barley
- Winter Wheat
- Oats
- Spring Rye

**Spring Wheat**

<b>RATE/HA PROBE XL HERBICIDE</b>	<b>RATE PER HECTARE/TANK MIX PARTNER<sup>1</sup></b>	<b>CROP STAGE</b>	
0.076 kg	30 g Refine SG <sup>†2,3,10</sup> + 0.2% v/v AGRAL <sup>®</sup>	2 - 5 leaf	
0.076 kg	30 g Refine SG <sup>2,3,11</sup> + 0.23 L HORIZON <sup>®</sup> 240EC + 0.8 L SCORE <sup>®</sup>	2 - 5 leaf	
0.076 kg	Express <sup>†</sup> Pack Post-Emergent Herbicide Tank Mix: 10 g Express Herbicide Dry Flowable 75% <sup>2,3</sup> + 0.6 L 2,4-D Herbicide Low Volatile Ester <sup>4,12</sup>	3 - 6 leaf + 3 tiller stage of wheat	
0.16 – 0.2 kg	PROBE XL Herbicide Used Alone OR	2 - 5 leaf	
0.16 – 0.2 kg	0.85 L 2,4-D Amine <sup>5</sup> OR		
	0.85 L MCPA Amine <sup>5</sup> OR		
	1.1 L MCPA K <sup>6</sup> OR		
	0.275 – 0.425 L Sencor 500 <sup>7,8</sup> OR		2 - 4 leaf
	275 g Lexone DF <sup>8</sup> OR		2 - 3 leaf
	5 g Ally <sup>9</sup>	2 - 5 leaf	

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> For use in the prairie provinces and Peace River Region of British Columbia Only.

<sup>3</sup> Excluding Durum wheat.

<sup>4</sup> 660 g/L formulation.

<sup>5</sup> 500 g/L formulation.

<sup>6</sup> 400 g/L formulation.

<sup>7</sup> Use the higher rate of Sencor 500 for control of volunteer sunflowers.

<sup>8</sup> Sencor/Lexone tank-mixes apply to Western Canada only. Application may be delayed until the 4-leaf stage of the crop, however, crop tolerance may be reduced. Apply PROBE XL Herbicide at 0.16 kg/ha with Sencor/Lexone.

<sup>9</sup> Ally tank-mixes apply to Western Canada only. Apply PROBE XL Herbicide at 0.16 kg/ha with Ally. Ensure that Ally is completely in suspension in the spray tank before adding PROBE XL Herbicide. Do not add a surfactant.

<sup>10</sup> Ensure that Refine SG Herbicide is completely dissolved. Add PROBE XL Herbicide with reduced agitation, then adjuvant.

<sup>11</sup> Ensure Refine SG Herbicide is completely dissolved. Reduce agitation, and then add PROBE XL Herbicide, followed by HORIZON 240EC. Then add SCORE Adjuvant.

<sup>12</sup> Add DuPont 2,4-D Herbicide Low Volatile Ester last.

**Spring Rye**

<b>RATE/HA PROBE XL HERBICIDE</b>	<b>RATE PER HECTARE/TANK MIX PARTNER<sup>1</sup></b>	<b>CROP STAGE</b>
0.16 – 0.2 kg	PROBE XL Herbicide Used Alone OR	2 - 3 leaf
	0.85 L 2,4-D Amine <sup>2</sup>	

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions

regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

### Spring Barley

RATE/HA PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>1</sup>	CROP STAGE
0.076 kg	30 g Refine SG <sup>2,9</sup> + 0.2 v/v AGRAL 90	2 - 5 leaf
0.076 kg	Express <sup>†</sup> Pack Post-Emergent Herbicide Tank Mix: 10 g Express Herbicide Dry Flowable 75% <sup>2</sup> + 0.6 L 2,4-D Herbicide Low Volatile Ester <sup>3,10</sup>	3 - 6 leaf + 3 tiller stage of Barley
0.16 – 0.2 kg	PROBE XL Herbicide Used Alone OR	2 - 5 leaf
	0.85 L 2,4-D Amine <sup>4</sup> OR	
	0.85 L MCPA Amine <sup>4</sup> OR	
	1.1 L MCPA K <sup>5</sup> OR	2 - 3 leaf
	0.275 – 0.425 L <sup>6</sup> Sencor 500 <sup>7</sup> OR	2 - 3 leaf
	275 g Lexone DF <sup>7</sup> OR	2 - 5 leaf
	5 g Ally <sup>8</sup>	

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> For use in the prairie provinces and Peace River Region of British Columbia Only.

<sup>3</sup> 660 g/L formulation.

<sup>4</sup> 500 g/L formulation.

<sup>5</sup> 400 g/L formulation.

<sup>6</sup> Use the higher rate of Sencor 500 for control of volunteer sunflowers.

<sup>7</sup> Sencor/Lexone tank-mixes apply to Western Canada only. Apply PROBE XL Herbicide at 0.16 kg/ha with Sencor/Lexone. Do not use on Klondike variety of Barley.

<sup>8</sup> Ally tank-mixes apply to Western Canada only. Apply PROBE XL Herbicide at 0.16 kg/ha with Ally. Ensure that Ally is completely in suspension in the spray tank before adding PROBE XL Herbicide. Do not add a surfactant.

<sup>9</sup> Ensure that Refine SG Herbicide is completely dissolved. Add PROBE XL Herbicide with reduced agitation, then adjuvant.

<sup>10</sup> Add DuPont 2,4-D Herbicide Low Volatile Ester last.

### Winter Wheat

RATE/HA PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>1</sup>	CROP STAGE
0.16 – 0.2 kg	PROBE XL Herbicide Used Alone OR	15 - 25 cm tall or before shot blade stage
	0.85 L 2,4-D Amine <sup>2</sup> OR	
	0.85 L MCPA Amine <sup>2</sup> OR	
	1.1L MCPA K <sup>3</sup>	

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

<sup>3</sup> 400 g/L formulation.

**Oats**

<b>RATE/HA PROBE XL HERBICIDE</b>	<b>RATE PER HECTARE/TANK MIX PARTNER<sup>1</sup></b>	<b>CROP STAGE</b>
0.16 – 0.2 kg	PROBE XL Herbicide Used Alone OR	2 - 5 leaf
	0.85 L MCPA Amine <sup>2</sup> OR	
	1.1 L MCPA K <sup>3</sup>	

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

<sup>3</sup> 400 g/L formulation.

**FIELD CORN:****Treatment Notes**

1. Apply PROBE XL Herbicide used alone or PROBE XL Herbicide tank-mixes in 220 to 350 litres of water/ha at a pressure of 150 to 275 kPa. Use coarse sprays.
2. Keep spray mixture in suspension at all times. If mixture is allowed to settle, thoroughly agitate the mixture before spraying.
3. Do not apply to sweet corn.
4. Unless otherwise specified do not use additives such as oil, wetting agents, emulsifiers, detergents, sticking agents, or dispersing agents on corn with PROBE XL Herbicide.
5. Corn height refers to the crop as it stands, not leaf-extended.
6. When using drop pipes (drop nozzles) on corn 20 cm or more in height, direct the spray beneath the lower leaves of the corn and onto the weeds and soil. Do not apply to corn over 50 cm in height.
7. Apply no later than 2 weeks prior to tassel emergence when using PROBE XL Herbicide alone up to 50 cm.
8. For the best control of annuals, spray when they are actively growing and in the seedling stage. Poor results may occur if weeds are well advanced at the time of application.
9. When applying PROBE XL Herbicide adjacent to sensitive crops, apply as a pre-emergent or early post-emergent treatment to avoid potential drift onto these sensitive crops.
10. When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary and PPE measures for mixing/loading/applying, and label statements pertaining to environmental protection, such as buffer zones, stated on all tank-mix product labels.

**DO NOT APPLY BY AIR.****PROBE XL Herbicide/LIQUID NITROGEN**

Pre-emergent applications of PROBE XL Herbicide are generally compatible with most liquid nitrogen fertilizers. To determine compatibility, mix all components of the finished spray in proportionate quantities in a small jar before mixing in the spray tank. If the herbicides do not ball-up or form flakes, sludge, jelly, oily films or layers, or other precipitates within 5 minutes after mixing, the tested spray-mix is compatible.

**Weeds Controlled:**

RATE/HA PROBE XL HERBICIDE	WEEDS CONTROLLED
0.41 – 0.86 kg	Canada fleabane <sup>1</sup> Canada thistle <sup>2</sup> cleavers common ragweed <sup>3</sup> corn spurry cow cockle false ragweed field bindweed <sup>2</sup> giant ragweed green smartweed hare's-ear mustard Indian mustard lady's-thumb lamb's-quarters <sup>3</sup> perennial sow-thistle <sup>2</sup> redroot pigweed <sup>3</sup> Russian pigweed Tartary buckwheat tumble mustard velvetleaf wild buckwheat wild mustard wormseed mustard

<sup>1</sup> Post-emergence application only.

<sup>2</sup> Apply PROBE XL Herbicide annually for three years at the flowering stage of bindweed and the budding stage of thistles.

<sup>3</sup> Including atrazine-resistant species.



**PRE-EMERGENCE TREATMENT:****Eastern Canada Only**

PROBE XL Herbicide can be used alone at 0.86 kg /ha or in tank-mixes with the following herbicides for additional broadleaf and grassy weed control.

<b>RATE PER HECTARE PROBE XL HERBICIDE</b>	<b>RATE PER HECTARE/TANK MIX PARTNER<sup>1</sup></b>
0.86 kg	PROBE XL Herbicide Used Alone
0.86 kg	1.25 – 1.75 L DUAL <sup>®</sup> MAGNUM <sup>®</sup> Herbicide
0.86 kg	1.25 – 1.75 L DUAL II MAGNUM Herbicide
0.86 kg	3.0 – 4.0 L PRIMEXTRA <sup>®</sup> II MAGNUM Herbicide
0.86 kg	2.1 – 3.1 L AATREX <sup>®</sup> Liquid 480 Herbicide
0.86 kg	2.1 – 3.1 L AATREX Liquid 480 + 1.25 – 1.75 L DUAL MAGNUM <b>OR</b> 1.25 – 1.75 L DUAL II MAGNUM
0.51 kg	60 g Elim <sup>†</sup> EP Herbicide 25% Dry Flowable + 0.75 L DUAL II MAGNUM
0.86 kg	1.1 – 1.4 L Frontier <sup>†</sup> Herbicide
0.86 kg	4.2 L Prowl <sup>†</sup> 400 <sup>2</sup>

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> Other pendimethalin formulations will require a rate calculation adjustment according to percent active ingredient.

**Pre-emergence Treatment Notes:**

1. Apply PROBE XL Herbicide tank-mixes as broadcast ground treatments after planting but before weeds and corn emerge.
2. Apply to medium to fine textured soils containing more than 2.5% organic matter.
3. Do not use on sandy or sandy loam soils.
4. Avoid direct chemical contact with the corn seed. If you plan to apply PROBE XL Herbicide prior to corn emergence, be sure to place the corn seeds 4 cm or more below the soil surface. If seeds planted less than 4 cm below the soil surface, delay application of PROBE XL Herbicide until the spike stage.
5. Do not incorporate. If applications are made during planting, apply PROBE XL Herbicide far enough behind the planting equipment to avoid incorporation by the planter wheel or other covering device. If soil crusting makes it necessary to use a rotary hoe after a pre-emergence treatment, delay hoeing the soil more than 1.3 cm deep.
6. Always consult the tank mix partner label for further limitations and restrictions (especially re: soil type).

**POST-EMERGENCE TREATMENT**

PROBE XL Herbicide or PROBE XL Herbicide tank-mixes can be applied as “overlay” to corn previously treated with any other broadleaf or grass herbicide. The 0.86 kg rate of PROBE XL

Herbicide as “overlay” is particularly effective in controlling velvetleaf and providing extended residual control of other late germinating, deep rooted annuals. *Note:* Unless otherwise specified, do not use additives such as oils, wetting agents, or sticking agents.

**PROBE XL Herbicide Alone:  
Spike to 5-leaf corn  
Eastern and Western Canada**

<b>RATE PER HECTARE PROBE XL HERBICIDE</b>	<b>CROP STAGE</b>	<b>WEED STAGE</b>
0.86 kg	Spike to 5-leaf	Pre-emergence to 2-leaf stage <sup>1</sup>

<sup>1</sup> For best performance, spray when the broadleaf weeds are emerged and up to the 2-leaf stage of their development.

**PROBE XL Herbicide Tank-Mixes  
Western Canada (Prairie Provinces Only)**

<b>RATE PER HECTARE PROBE XL HERBICIDE</b>	<b>RATE PER HECTARE/TANK MIX PARTNER<sup>1</sup></b>	<b>CROP STAGE</b>	<b>WEED STAGE</b>
0.41 kg	33.4 g Accent <sup>†</sup> 75 DF <sup>2,3</sup>	Spike to 6-leaf	Post-emergence to 6-leaf stage

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> Add 0.2% v/v non-ionic surfactant.

<sup>3</sup> Single post-emergent spray, ground application only, do not apply this tankmix within 30 days of harvest

**PROBE XL Herbicide Tank-Mixes  
Eastern Canada Only**

<b>RATE PER HECTARE PROBE XL HERBICIDE</b>	<b>RATE PER HECTARE/TANK MIX PARTNER<sup>1</sup></b>	<b>CROP STAGE</b>	<b>WEED STAGE</b>
0.21 kg	13.3 g PEAK 75 WG <sup>2</sup>	2 to 7-leaf	1 to 6-leaf <sup>7</sup>
0.41 kg	33.7 g Ultim <sup>†</sup> 75 DF <sup>2</sup>	Spike to 6-leaf	Emergence to 6-leaf
0.41 kg	33.4 g Accent 75 DF <sup>2</sup>	Spike to 6-leaf	Emergence to 6-leaf
0.21 kg	13.3 g PEAK 75 WG <sup>2</sup> + 33.7 g Ultim 75 DF	2 to 6-leaf	1 to 6-leaf <sup>7</sup>
0.21 kg	13.3 g PEAK 75 WG <sup>2</sup> + 33.4 g Accent 75 DF	2 to 7-leaf	1 to 6-leaf <sup>7</sup>
0.41 kg	2.1 – 3.1 L AATREX Liquid 480 <sup>4</sup>	Spike to 6-leaf	Preemergence to 2-leaf
0.41 kg - 0.86 kg	1.25 – 1.75 L DUAL MAGNUM <b>OR</b> 1.25 – 1.75 L DUAL II MAGNUM	Spike to 5-leaf	Preemergence to 2-leaf
0.41 kg - 0.86 kg <sup>5,6</sup>	2.3 L AATREX Liquid 480 + 1.25 – 1.75 L DUAL MAGNUM <b>OR</b> 1.25 – 1.75 L DUAL II MAGNUM	Spike to 5-leaf	Preemergence to 2-leaf
0.41 kg - 0.86 kg	3.0 – 4.0 PRIMEXTRA II MAGNUM	Spike to 2-leaf	Preemergence to 2-leaf
0.43 kg	60 g Elim EP <sup>2</sup> Herbicide 25% Dry Flowable	Spike to 3-leaf	Preemergence to 4-leaf
0.41 kg – 0.86 kg	4.2 L Prowl <sup>†</sup> 400 <sup>3</sup>	Spike to 4-leaf	Preemergence to 2-leaf
0.43 kg	2.5 L Prowl 400 + 50 g Elim EP <sup>2</sup> Herbicide 25% Dry Flowable	Spike to 3-leaf	Preemergence to 4-leaf
0.86 kg	1.1 – 1.4 L Frontier Herbicide	Spike to 3-leaf	Preemergence to 2-leaf <sup>8</sup>

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, buffer zones, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> Add 0.2% v/v non-ionic surfactant.

<sup>3</sup> Other pendimethalin formulations will require a rate calculation adjustment according to percent active ingredient.

<sup>4</sup> Do not apply to sweet corn.

<sup>5</sup> DO NOT USE THESE TIMINGS OR TANK MIXES ON SEED CORN, SWEET CORN OR POPCORN.

<sup>6</sup> Do not apply tank mixes containing PROBE XL Herbicide beyond the 5-leaf stage of corn.

<sup>7</sup> Consult the label of product to be tank mixed with PROBE XL Herbicide for specific information regarding weed staging.

<sup>8</sup> For annuals, apply before 2-leaf stage.

**PROBE XL Herbicide Tank-Mixes  
EASTERN CANADA and the Province of Manitoba<sup>1</sup>**

PROBE XL Herbicide can be tank mixed with Option 35 DF or Option 2.25 OD Liquid Herbicide and applied as a post-emergence application for field corn grown in Eastern Canada and the province of Manitoba. Tank mixing PROBE XL Herbicide with Option 35DF or Option 2.25 OD Liquid Herbicide will provide enhanced control of annual broadleaf weeds.

Option 35 DF or Option 2.25 OD herbicide is to be used in conjunction with Hasten spray adjuvant at 1.75 L/ha plus liquid nitrogen fertilizer (28% UAN) at a rate of 2.5 L/ha. Use a spray-grade liquid nitrogen fertilizer as recommended.

RATE PER HECTARE PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>2</sup>	CROP STAGE	WEEDS CONTROLLED
0.21 kg	100 g Option 35 DF <b>OR</b> 1.56 L Option 2.25 OD + 1.75 L Hasten spray adjuvant + 2.5 L liquid nitrogen fertilizer (28% UAN)	1 to 8-leaf	<p><b>Perennials</b> Quackgrass</p> <p><b>Annual Grasses</b> barnyard grass bristly foxtail fall panicum green foxtail large crabgrass proso millet yellow foxtail witchgrass</p> <p><b>Annual Broadleaf Weeds</b> common chickweed common ragweed (<b>suppression only</b>) Eastern black nightshade lamb's-quarters redroot pigweed wild mustard wormseed mustard velvetleaf</p>

<sup>1</sup> Ground application only. Do not apply by air. Make only one application per season. Apply in a minimum of 220 L/ha of water and at a pressure of 175 – 275 kPa.

<sup>2</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

**Spike to 50 cm Standing Corn  
Eastern and Western Canada**

<b>RATE PER HECTARE PROBE XL HERBICIDE</b>	<b>RATE PER HECTARE/TANK MIX PARTNER<sup>1</sup></b>	<b>CROP STAGE</b>	<b>WEED STAGE</b>
0.43 kg	PROBE XL Herbicide Used Alone	Emergence to 50 cm (drop nozzles from 20-50 cm corn)	Pre-emergence to 2-leaf
0.20 kg	0.85 L 2,4-D amine	Emergence to 50 cm (drop nozzles from 20-50 cm corn)	Pre-emergence to 2-leaf

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

**PROBE XL Herbicide Sequential Applications  
Eastern and Western Canada**

PROBE XL Herbicide may be applied sequentially to a PROBE XL Herbicide application to control late-emerging weeds such as field bindweed, Canada thistle and velvetleaf. Follow application directions as outlined for the PROBE XL Herbicide alone post-emergence treatments up to 50 cm tall corn.

**WEED CONTROL IN REDUCED TILLAGE (prior to seeding)**

**Treatment Notes**

1. PROBE XL Herbicide + Roundup<sup>†</sup> applications may be applied to emerged annual grass and annual broadleaf weeds in reduced tillage systems prior to seeding of wheat, barley, rye, oats, and field corn only.
2. Do not apply prior to seeding sweet corn.
3. Planting should follow soon after application since this tank-mix does not provide residual weed control.
4. Delayed planting following chemical application will allow weeds to emerge between application and crop emergence.
5. For field corn, apply to medium to fine textured soils containing more than 2.5% organic matter. Do not use on sandy or sandy loam soil.
6. Certain broadleaf crops such as sweet corn, lentils, peas, canola and flax can be injured by a pre-seeding application of this tank-mix and should not be planted after the use of this tank-mix.
7. Under certain stress conditions, such as drought, cool temperatures or where extremely hard water (> 700 ppm Ca + Mg) will be used, use 50 L/ha of water with this tank-mix to help improve results.

DO NOT APPLY BY AIR.

**APPLICATION DIRECTIONS**

RATE PER HECTARE PROBE XL HERBICIDE <sup>1</sup>	RATE PER HECTARE/TANK MIX PARTNER <sup>2</sup>	WEEDS CONTROLLED
0.21 kg	0.935 L Roundup Original <b>OR</b> 0.935 L Roundup Transorb <b>OR</b> 0.67 L Roundup Weathermax	<p><b>Annual Grasses</b> <i>(apply any time between emergence and heading)</i> downy brome green foxtail Persian dandelion volunteer cereals wild oats</p> <p><b>Annual Broadleaves</b> <i>(apply up to 15 cm height)</i> cleavers (1-4 whorls) <b>suppression only</b> cow cockle flixweed<sup>3</sup> green smartweed kochia lady's-thumb lamb's-quarters redroot pigweed Russian thistle stinkweed<sup>3</sup> volunteer canola<sup>4</sup> wild buckwheat<sup>5</sup> wild mustard</p> <p><b>Perennials</b> <i>(apply before initiation of seed head or browning of lower leaves)</i> foxtail barley (<b>suppression only</b>)</p>

<sup>1</sup> Add 0.5 L of a non-ionic surfactant in 100 L of water.

<sup>2</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>3</sup> For optimal control of winter annual broadleaf weeds such as flixweed and stinkweed, 2,4-D should be applied to emerged, actively growing weeds in the fall the year prior to the PROBE XL Herbicide + Roundup spring pre-seeding tank-mix. Refer to the 2,4-D product label for appropriate rates.

<sup>4</sup> Not including glyphosate tolerant canola, i.e. Roundup Ready Canola.

<sup>5</sup> Apply at the 1 to 4-leaf stage.

**WEED CONTROL IN REDUCED TILLAGE FALLOW****Treatment Notes**

1. Apply PROBE XL Herbicide tank-mixes in the spring to fallow land when seedling weeds have emerged, and are actively growing at the 2 to 4-leaf stage.
2. Reduced control may occur if applications are made at an advanced stage of weed development.

**DO NOT APPLY BY AIR.**

**APPLICATION DIRECTIONS**

<b>RATE PER HECTARE PROBE XL HERBICIDE</b>	<b>RATE PER HECTARE/TANK MIX PARTNER<sup>1</sup></b>	<b>WEEDS CONTROLLED</b>
0.16 – 0.2 kg	1.1 L of 2,4-D Amine <sup>2</sup> <b>OR</b> 0.92 L of 2,4-D L.V. ester <sup>3</sup>  in 50- 100 L of water	Canada thistle ( <b>top growth</b> ) cow cockle flixweed green smartweed kochia lady's-thumb lamb's-quarters perennial sowthistle ( <b>top growth</b> ) redroot pigweed Russian thistle shepherd's purse stinkweed Tartary buckwheat wild buckwheat wild mustard
0.2 kg	0.75 – 1.0 L Roundup <sup>4</sup> Original <b>OR</b> 0.75 – 1.0 L Roundup <sup>4</sup> Transorb <b>OR</b> 0.5- 0.7 L Roundup Weathermax <sup>4</sup>	cow cockle flixweed <sup>5</sup> foxtail barley <sup>6</sup> green foxtail kochia lady's thumb lamb's-quarters redroot pigweed <sup>6</sup> Russian thistle stinkweed stinkweed volunteer canola <sup>7</sup> volunteer cereals wild buckwheat <sup>6</sup> wild mustard wild oats
0.41 kg	0.75 – 1.0 L Roundup <sup>4</sup> Original <b>OR</b> 0.75 – 1.0 L Roundup <sup>4</sup> Transorb <b>OR</b> 0.5 - 0.7 L Roundup Weathermax <sup>4</sup>	wild buckwheat

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

<sup>3</sup> 600 g/L formulation.

<sup>4</sup> Add 0.35 L of a non-ionic surfactant registered for this use in 50-100 L of water.

<sup>5</sup> For control of flixweed use 1.0 L/ha of Roundup.

<sup>6</sup> Suppression only.

<sup>7</sup> Not including glyphosate tolerant canola.

**PROBE XL HERBICIDE / Roundup Application Notes**

1. These tank-mixes should be applied to emerged actively growing annual weeds from 8 - 15 cm in height.
2. Use the higher rate of Roundup when weeds are at a more advanced stage of growth.
3. For perennial weed control, refer to the appropriate section of this label for proper stages of growth and recommended stages of application.
4. Reduced control may occur if muddy water is used, such as water from dug-outs, ponds

and unlined ditches.

## PERENNIAL WEED CONTROL IN SUMMERFALLOW AND STUBBLE:

### Treatment Notes

1. Apply PROBE XL Herbicide in 110 - 220 litres of water/ha.
2. For the most effective control of Canada thistle, follow a long-term approach that includes in crop, post-harvest, and summerfallow treatments, in conjunction with tillage operations.
3. If application is made after September 1<sup>st</sup>, or if soil moisture levels are extremely low after application, crop injury may occur in the spring following application.

### DO NOT APPLY BY AIR.

### Weeds Controlled

RATE PER HECTARE PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>1</sup>	WEEDS CONTROLLED	RECRIPPING IN YEAR FOLLOWING
1.7 kg	PROBE XL Herbicide Used Alone	Canada thistle curled dock ( <b>top growth</b> ) English daisy field bindweed goldenrod perennial sow thistle tansy ragwort	cereals soybeans field corn white beans sweet corn
0.86 kg	1.7 L Roundup Original or Transorb <sup>2</sup>	Canada thistle perennial sow-thistle	<b>All of the above plus:</b> canola

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> Add 0.35 L of a non-ionic surfactant.

### Application Directions

#### Summerfallow Treatment Notes

1. Cultivate in the spring and apply PROBE XL Herbicide when:

Weed	Weed Stage
thistles	the majority of thistles are up and before the early bud stage (15-25 cm tall)
field bindweed	in the flowering stage
other weeds	in the early bud stage of growth

2. Cultivate three weeks after application.

#### Stubble Treatment Notes

Apply to regrowth after harvest an at least 2 weeks prior to a killing frost.

## PERENNIAL ROSETTE CONTROL IN SUMMERFALLOW:

### Treatment Notes

1. For the most effective control of Canada thistle, follow a long-term approach that includes in crop, post-harvest, and summerfallow treatments, in conjunction with tillage operations.



2. Commence early spring cultivation and continue as required throughout the summer.  
**Note:** The final cultivation must occur by the end of July between July 15-August 1 and the final cultivation should cut the thistle off 5 to 7.5 cm below the soil surface.
3. Spray in 110-220 L of water/ha when the majority of thistles have emerged as low growing rosettes 15 to 25 cm across.
4. Apply at least two weeks prior to a killing frost.
5. Cultivate three weeks after application.

**DO NOT APPLY BY AIR.**

**Weeds Controlled**

RATE PER HECTARE PROBE XL HERBICIDE	WEEDS CONTROLLED	RECROPPING IN YEAR FOLLOWING
0.86 kg	Canada thistle	cereals soybeans field corn white beans sweet corn

**PASTURES AND RANGELAND:**

**Treatment Notes**

**For Broadleaf Weed Control**

1. Apply PROBE XL Herbicide or PROBE XL Herbicide tank-mixes in 110 - 220 L of water/ha when weeds are actively growing. Thorough coverage of foliage is necessary to control weeds.
2. Do not apply PROBE XL Herbicide or PROBE XL Herbicide tank-mixes if pasture is underseeded to legumes.

**DO NOT APPLY BY AIR.**

RATE PER HECTARE PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>1</sup>	WEEDS CONTROLLED
1.4 kg	PROBE XL Herbicide Used Alone	Canada thistle curled dock ( <b>top growth</b> ) English daisy field bindweed goldenrod perennial sow thistle tansy ragwort
3.2 kg	PROBE XL Herbicide Used Alone	goat's beard ground cherry diffuse knapweed pasture sage sheep sorrel thyme-leafed spurge poverty weed
1.2 kg	2.2 L of 2,4-D amine <sup>2</sup> in 560 L of water/ha	poison ivy
1.4 kg	2.2 L of 2,4-D amine <sup>2</sup>	wild carrot plus additional weeds found on the 2,4-D amine label
1.4 kg	1.83 L of 2,4-D L.V. ester <sup>3</sup>	<b>All of the above plus:</b> Additional weeds found on the 2,4-D label

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

<sup>3</sup> 600 g/L formulation.

### For Brush Weed Control

1. PROBE XL Herbicide is effective in controlling many deciduous brush species that are found growing along fence rows and in other areas around the farm where they may be undesirable.
2. Apply PROBE XL Herbicide tank-mixes in spring or early summer to deciduous species (leaves should be fully expanded) either as a leaf stem treatment or as a broadcast ground application.
3. Brush and trees over 2 meters tall should be cut and regrowth treated when it develops.
4. Do not apply PROBE XL Herbicide tank-mixes if pasture or rangeland is underseeded to legumes.
5. For Stem Foliage Treatment, apply to all foliage and stems to the point of runoff. The volume of spray mix applied per hectare will vary according to the height and density of the woody species present.
6. For Broadcast Ground Treatment, apply PROBE XL Herbicide tank-mixes in sufficient dilution to wet all foliage. Normally, 220-230 litres of water/ha is recommended for brush stands.
7. For high volume handwand applications, applicators must limit volume of solution used per day to 400 L.

**DO NOT APPLY BY AIR.**

RATE PER HECTARE PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>1</sup>	WEEDS CONTROLLED
1.4 kg/1000 L of water	4.0 L of 2,-4 D amine <sup>2</sup> <b>OR</b> 3.3 L of 2,4-D L.V. ester <sup>3</sup>	alder aspen poplar cherry western snowberry (buckbrush) wolf willow (silverwillow) wild rose
2.2 kg	4.4 L of 2,-4 D amine <sup>2</sup> <b>OR</b> 3.75 L of 2,4-D L.V. ester <sup>3</sup>	aspen poplar
2.3 kg	4.4 L of 2,-4 D amine <sup>2</sup> <b>OR</b> 3.75 L of 2,4-D L.V. ester <sup>3</sup>	prickly rose
2.3 kg	3.75 L of 2,4-D L.V. ester <sup>3</sup>	western snowberry

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

<sup>3</sup> 600 g/L formulation.

## SEED PRODUCTION:

### Treatment Notes

#### For New/Established Stands of Red Fescue

1. Apply PROBE XL Herbicide or PROBE XL Herbicide tank-mixes in at least 110 litres of water/ha.
2. Applications to new seedling stands may be made when the crop is 5 cm tall.
3. Application to established stands may be made up to the shot-blade stage of the crop.
4. For dandelion control, apply PROBE XL Herbicide plus 2,4-D amine in the fall when weeds are in the rosette or early bud stage.

## DO NOT APPLY BY AIR

RATE PER HECTARE PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>1</sup>	WEEDS CONTROLLED
0.41 kg	PROBE XL Herbicide Used Alone	Canada thistle ( <b>top growth</b> ) clover cow cockle corn spurry green smartweed lady's-thumb perennial sowthistle ( <b>top growth</b> ) Tartary buckwheat wild buckwheat
0.41 kg	1.5 L of 2,-4 D amine <sup>2</sup>	<b>All of the above plus:</b> additional weeds found on the 2,4-D amine label

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

### For Canary Seed (*Phalaris canariensis*)

1. The canary seed should only be used as bird seed.
2. For specific weeds controlled, refer to the PROBE XL Herbicide + MCPA amine weed spectrum list under “Cereals”.

DO NOT APPLY BY AIR.

### APPLICATION DIRECTIONS

RATE PER HECTARE PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>1</sup>	CANARY SEED STAGE
0.2 kg	PROBE XL Herbicide Used Alone	3-5 leaf stage
0.2 kg	0.85 L MCPA amine <sup>2</sup>	3-5 leaf stage

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

### For Seedling Grasses (seeded alone or underseeded with cereals)

DO NOT APPLY BY AIR.

### For seed and forage production of the following seedling grasses

smooth brome grass	crested wheatgrass
meadow fescue	intermediate wheatgrass
tall fescue	pubescent wheatgrass
meadow foxtail	slender wheatgrass
orchard grass	streambank wheatgrass
creeping red fescue	tall wheatgrass
timothy	

1. Apply PROBE XL Herbicide or PROBE XL Herbicide + tank-mixes in at least 110 litres of water/ha.
2. Application to new seedling grasses may be made when they are in the 2 to 4-leaf stage. If the seedling grass is under seeded with a cereal crop, refer to “Cereals” for additional restrictions pertaining to application type and rate.
3. If the crops are to be used as feed or pasture following treatment with PROBE XL Herbicide, PROBE XL Herbicide plus 2,4-D amine or MCPA, refer to the appropriate section for Grazing Restriction.

RATE PER HECTARE PROBE XL HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER <sup>1</sup>	WEEDS CONTROLLED
0.16 – 0.20 kg	PROBE XL Herbicide Used Alone	Canada thistle ( <b>top growth</b> ) cleavers ( <b>higher rate only</b> ) corn spurry cow cockle green smartweed lady's-thumb perennial sowthistle ( <b>top growth</b> ) Tartary buckwheat wild buckwheat
0.16 – 0.20 kg	0.85 L of 2,4-D amine <sup>2</sup> <b>OR</b> 0.85 L of MCPA amine <sup>2</sup> <b>OR</b> 1.1 L of MCPA K <sup>3</sup>	All of the above plus: burdock ( <b>young seedlings</b> ) cocklebur flixweed hemp-nettle <sup>4</sup> kochia redroot pigweed Russian pigweed Russian thistle shepherd's purse volunteer sunflower <sup>5</sup> volunteer canola <sup>6</sup> wild radish

<sup>1</sup> Consult the label of the product(s) to be tank mixed with PROBE XL Herbicide for specific instructions regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.

<sup>2</sup> 500 g/L formulation.

<sup>3</sup> 400 g/L formulation.

<sup>4</sup> Use PROBE XL Herbicide + MCPA K for hemp-nettle control. Apply at the 2 to 3 leaf stage of weed for best control. Hemp-nettle may not be controlled if application is made at a more advanced stage of crops and weeds.

<sup>5</sup> Depending on the growing conditions, control may be delayed slightly.

<sup>6</sup> Best results will be obtained if application is made prior to bolting of canola, when this weed is at the 2 to 4 leaf stage.

#### For Established Grass Pasture

1. Apply PROBE XL Herbicide at 0.41 kg/ha with 1.5 L/ha of 2,4-D amine (500 g/L formulation) to suppress volunteer alfalfa.
2. Apply PROBE XL Herbicide + 2,4-D amine in 110-220 L/ha in the spring to actively growing alfalfa at greater than 5 cm in height.

#### DO NOT APPLY BY AIR.

#### Buffer zones:

Use of the following spray methods or equipment DOES NOT require a buffer zone: hand-held or backpack sprayer, and spot treatment.

The buffer zones specified in the tables below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairies potholes, creeks, marshes,

streams, reservoirs and wetlands) and estuarine/marine habitats.

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

### Buffer Zones for using ASAE Coarse Classification Droplets

Method of application	Crop		Buffer zones (metres) required for the protection of:				
			Freshwater habitat of depths:		Estuarine/marine habitats of depths:		Terrestrial habitats:
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Wheat, barley, oats, rye, canary seed, forage grass (seedlings)		0	0	0	0	1
	Corn, forage grass (established), red fescue		1	1	0	0	4
	Stubble fields, fallow land		1	1	0	0	5
	Pasture, range land, and Brush Weed Control		1	1	0	0	10
Aerial (W. Canada only)	Wheat, barley, oats, rye	Fixed Wing	0	0	0	0	50
		Rotary Wing	0	0	0	0	45

\* For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70 %. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30 %.

### Resistance Management Recommendations

For resistance management, PROBE XL Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to PROBE XL 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 PROBE XL Herbicide or other Group 4 herbicides with different herbicide groups that control the same weeds in a field.

Use tank mixtures with herbicides from a different group when such use is permitted.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development.

Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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