

GROUP 4 HERBICIDE

PROBE™ Herbicide

HERBICIDE

WETTABLE GRANULES

AGRICULTURAL

PROBE Herbicide controls broadleaf weeds in cereals, field corn, pastures, rangeland grasses, crop-free land (summerfallow and stubble), red fescue, and canary seed (*Phalaris canariensis*).

FOR SALE FOR USE IN WESTERN CANADA AND FIELD CORN IN EASTERN CANADA

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. **28884**
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 2008-5125

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. For good hygiene practices, 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.
5. DO NOT enter treated fields until 12 hours after application.
6. Observe specific personal protective equipment recommendations for each use (see Directions for Use section).

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.

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.

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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PEST CONTROL PRODUCTS ACT

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

Pamphlet

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FIRST AID

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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

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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. For good hygiene practices, 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.
5. DO NOT enter treated fields until 12 hours after application.
6. Observe specific personal protective equipment recommendations for each use (see Directions for Use section).

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-target terrestrial plants.

Observe buffer zones specified under DIRECTIONS FOR USE.

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.

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)***

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 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 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 Herbicide on crops unless otherwise specified.
7. For information on feeding and grazing of beef and dairy cattle on treated vegetation refer to the Tables on 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 Herbicide may cause injury to desirable trees and plants, particularly flowers, fruit trees, grapes, ornamentals, peas, potatoes, tomatoes and other broadleaf crops especially in their developmental and growing stage. Follow these precautions when spraying PROBE 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 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 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 Herbicide alone or with 2,4-D or MCPA

If you have used PROBE Herbicide alone or PROBE 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. Let the solution out of the spray tank through the boom.
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.

DIRECTIONS FOR USE

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.

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

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 Herbicide or PROBE Herbicide tankmixes if the crop is underseeded to legumes.
5. DO NOT permit lactating dairy animals to graze fields within 7 days after application.
6. DO NOT harvest forage or cut hay within 30 days after application.
7. Withdraw meat animals from treated fields at least 3 days before slaughter.

Ground Application

Apply PROBE 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 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) 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 Herbicide or PROBE Herbicide tankmixes by air in a minimum of 20 L/ha.
2. Apply PROBE Herbicide alone at 0.16 – 0.2 kg/ha or tankmix PROBE Herbicide at 0.16 – 0.2 kg/ha with the recommended rate of other 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 Herbicide unless otherwise specified.

Weeds Controlled

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

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

² Use PROBE 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.

³ Depending on the growing conditions, control may be slightly delayed.

APPLICATION DIRECTIONS

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

Applicators must wear a long-sleeved shirt, long pants and chemical-resistant gloves.

DO NOT enter treated fields until 12 hours after application.

PROBE Herbicide may be applied to:

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

Spring Wheat

RATE/HA PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹	CROP STAGE
0.076 kg	30 g Refine SG ^{† 2,3,6} + 0.2% v/v Agral 90	2-5 leaf
0.076 kg	30 g Refine SG ^{2,3,7} + 0.23 L HORIZON [®] 240EC Herbicide + 0.8 L SCORE [®] Adjuvant	2-5 leaf
0.076 kg	10 g Express [†] Herbicide Dry Flowable 75% ^{2,3} + 0.6 L 2,4-D Herbicide Low Volatile Ester ^{3,8,9}	3-6 leaf + 3 tiller stage of wheat
0.16 – 0.2 kg	0.85 L 2,4-D Amine ⁴	2-5 leaf
	0.85 L MCPA Amine ⁴	
	1.1 L MCPA K ⁵	

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

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

³ Excluding durum wheat.

⁴ 500 g/L formulation.

⁵ 400 g/L formulation.

⁶ Ensure that Refine SG Herbicide is completely dissolved. Add PROBE Herbicide with reduced agitation, then adjuvant.

⁷ Ensure the Refine SG Herbicide is completely dissolved. Reduce agitation, and then add PROBE Herbicide, followed by HORIZON 240EC Herbicide. Then add SCORE Adjuvant.

⁸ Add DuPont 2,4-D Herbicide Low Volatile Ester last.

⁹ 660 g/L formulation.

Spring Rye

RATE/HA PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹	CROP STAGE
0.16 – 0.2 kg		2-3 leaf
	0.85 L 2,4-D Amine ²	

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

² 500 g/L formulation.

Spring Barley

RATE/HA PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹	CROP STAGE
0.076 kg	30 g Refine SG ^{2,6} + 0.2% v/v Agral 90	2-5 leaf
0.076 kg	10 g Express Herbicide Dry Flowable 75% ² + 0.6 L 2,4-D Herbicide Low Volatile Ester ^{3,7}	3-6 leaf + 3 tiller stage of Barley
0.16 – 0.2 kg	0.85 L 2,4-D Amine ⁴	2-5 leaf
	0.85 L MCPA Amine ⁴	
	1.1 L MCPA K ⁵	

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

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

³ 660 g/L formulation.

⁴ 500 g/L formulation.

⁵ 400 g/L formulation.

⁶ Ensure that Refine SG Herbicide is completely dissolved. Add PROBE Herbicide with reduced agitation, then adjuvant.

⁷ Add DuPont 2,4-D Herbicide Low Volatile Ester last.

Winter Wheat

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

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

² 500 g/L formulation.

³ 400 g/L formulation.

Oats

RATE/HA PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER¹	CROP STAGE
0.16 – 0.2 kg		2-5 leaf
	0.85 L MCPA Amine ²	
	1.1 L MCPA K ³	

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

² 500 g/L formulation.

³ 400 g/L formulation.

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.

1. Following treatment with PROBE 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 Herbicide or PROBE Herbicide plus 2,4-D, follow the Grazing Restrictions table.

SEED PRODUCTION:**For New/Established Stands of Red Fescue****Treatment Notes****Red Fescue:**

Applicators must wear a long-sleeved shirt, long pants and chemical-resistant gloves.

DO NOT enter treated fields until 12 hours after application.

1. Apply PROBE Herbicide or PROBE 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 Herbicide plus 2,4-D amine in the fall when weeds are in the rosette or early bud stage.

DO NOT APPLY BY AIR.

Weeds Controlled

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

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

² 500 g/L formulation.

Canary Seed (*Phalaris canariensis*):

Applicators must wear a long-sleeved shirt, long pants and chemical-resistant gloves.

DO NOT enter treated fields until 12 hours after application.

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

Application Directions:

RATE PER HECTARE PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹	CANARY SEED STAGE
0.2 kg		3- 5 leaf stage
0.2 kg	0.85 L MCPA amine ²	

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

² 500 g/L formulation.

FIELD CORN (Western Canada):

Applicators must wear a long-sleeved shirt, long pants and chemical-resistant gloves.

DO NOT enter treated fields until 12 hours after application.

Treatment Notes

1. Apply PROBE Herbicide or PROBE Herbicide tank-mixes as broadcast ground treatments 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 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.
8. For the best control of annuals, spray when they are actively growing and in the seedling stage (up to 5 cm tall). Poor results may occur if weeds are well advanced at the time of application.
9. When applying PROBE Herbicide adjacent to sensitive crops, apply as a pre-emergent or early post-emergent overlay 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.
11. DO NOT permit lactating dairy animals to graze fields within 7 days after application.
12. DO NOT harvest forage or cut hay within 30 days after application.
13. Withdraw meat animals from treated fields at least 3 days before slaughter.

DO NOT APPLY BY AIR.

Weeds Controlled:

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

* Apply PROBE Herbicide annually for three years at the flowering stage of bindweed and the budding stage of thistles.

Application Directions:

RATE/HA PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER¹	CORN STAGE	WEED STAGE
0.41 kg ²	None	Emergence to 20 cm (20 – 50 cm drop with nozzles)	Pre-emergence to 5 cm (2 leaf)
0.86 kg ³		Emergence to 5-leaf (13 cm)	
0.2 kg	0.85 L of 2,4-D amine ⁴	Emergence to 3 leaf (10 cm) (10 – 50 cm with drop nozzles)	

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

² PROBE Herbicide may be applied at 0.41 kg/ha sequentially to an initial PROBE Herbicide treatment. These sequential applications are recommended for control of field bindweed, Canada thistle, and other late-germinating broadleaf weeds that escape the first treatment.

³ This rate of PROBE Herbicide is particularly effective at providing extended residual control of late-germinating, deep rooted annuals.

⁴ 500 g/L formulation.

FIELD CORN (Eastern Canada):

Applicators must wear a long-sleeved shirt, long pants and chemical-resistant gloves.

DO NOT enter treated fields until 12 hours after application.

Treatment Notes

1. Apply PROBE Herbicide or PROBE 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, spreaders or dispersing agents on corn with PROBE Herbicide.
5. Corn height refers to the crop as it stands, not leaf-extended.
6. When using drop pipes (drop nozzles), 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 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 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.
11. DO NOT permit lactating dairy animals to graze fields within 7 days after application.
12. DO NOT harvest forage or cut hay within 30 days after application.

13. Withdraw meat animals from treated fields at least 3 days before slaughter.

PROBE Herbicide/LIQUID NITROGEN

Pre-emergent applications of PROBE 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 HERBICIDE	WEEDS CONTROLLED
0.43 – 0.86 kg	Canada thistle ¹ cleavers common ragweed ² corn spurry cow cockle false ragweed field bindweed ¹ giant ragweed green smartweed hare's-ear mustard Indian mustard lady's-thumb lamb's-quarters ² perennial sow-thistle ¹ redroot pigweed ² Russian pigweed tartary buckwheat tumble mustard velvetleaf wild buckwheat wild mustard wormseed mustard

¹ Apply PROBE Herbicide annually for three years at the flowering stage of bindweed and the budding stage of thistles.

² Including atrazine-resistant species.

PRE-EMERGENCE TREATMENT

PROBE Herbicide can be used in tank-mixes with the following herbicides for additional broadleaf and grassy weed control.

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

RATE PER HECTARE PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹
0.86 kg	
0.86 kg	1.25 – 1.75 L DUAL [®] MAGNUM [®] Herbicide
0.86 kg	1.25 – 1.75 L DUAL II MAGNUM Herbicide
0.86 kg	2.1 – 3.1 L AATREX [®] Liquid 480 Herbicide
0.86 kg	2.1 – 3.1 L AATREX Liquid 480 Herbicide + 1.25 – 1.75 L DUAL MAGNUM Herbicide OR 1.25 – 1.75 L DUAL II MAGNUM Herbicide
0.86 kg	1.1 – 1.4 L Frontier [†]

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

Pre-emergence Treatment Notes:

1. Apply PROBE 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 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 Herbicide until the spike stage.
5. Do not incorporate. If applications are made during planting, apply PROBE 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 Herbicide or PROBE 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 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 Herbicide Alone:
Spike to 5-leaf corn
Eastern and Western Canada**

RATE PER HECTARE PROBE HERBICIDE	CROP STAGE	WEED STAGE
0.86 kg	Emergence to 5-leaf	Pre-emergence to 2-leaf stage ¹

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

**PROBE Herbicide Overlay Tank-Mixes:
Spike to 3-leaf corn
Eastern Canada Only**

RATE PER HECTARE PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹	CROP STAGE	WEED STAGE
0.43 kg	2.1 – 3.1 L AATREX Liquid 480	Emergence to 3-leaf	Pre-emergence to 2-leaf ^{2,3}

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

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

³ Do no apply beyond the 2-leaf stage of the grassy weeds.

**PROBE Herbicide Tank-Mixes:
Spike to 5-leaf corn
Eastern Canada Only**

RATE PER HECTARE PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹	CROP STAGE
0.2 kg	13.3 g PEAK ^{®2} 75 WG	2 to 7-leaf
0.2 kg	13.3 g PEAK ² 75 WG + 33.7 g Ultim [†] 75 DF	2 to 6-leaf
0.2 kg	13.3 g PEAK ² 75 WG + 33.4 g Accent [†] 75 DF	2 to 7-leaf
0.86 kg	2.1 – 3.1 L AATREX Liquid 480 ⁴	Pre-emergence to 5-leaf
0.86 kg	1.1 – 1.4 L Frontier ³	Emergence to 3-leaf

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

² Add 0.2% v/v non-ionic surfactant

³ For the best control of annuals, apply before the 2-leaf stage of grassy weeds

⁴ Pre-emergence to 2-leaf stage of weeds.

**Spike to 50 cm Standing Corn:
Eastern Canada Only**

RATE PER HECTARE PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹	CROP STAGE	WEED STAGE
0.43 kg		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

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

PASTURES AND RANGELAND

Applicators must wear coveralls over long pants, a long-sleeved shirt and chemical-resistant gloves.

For high volume handwand applications, applicators must limit volume of solution used per day to 750 L (broadleaf control spot treatment only).

Treatment Notes

1. Apply PROBE Herbicide or PROBE 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 Herbicide or PROBE Herbicide tank-mixes if pasture is underseeded to legumes.

DO NOT APPLY BY AIR.

Weeds Controlled

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

¹ Consult the label of the product(s) to be tank mixed with PROBE Herbicide for specific instructions

- regarding broadleaf weeds, soil-type variations, and rotational crop, grazing or other restrictions.
- ² 500 g/L formulation.

SUMMERFALLOW AND STUBBLE

Treatment Notes

1. Apply PROBE 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 1st, or if soil moisture levels are extremely low after application, crop injury may occur in the spring following application.

Summerfallow Treatment Notes:

1. Cultivate in the spring and apply PROBE Herbicide when:
 - The majority of thistles are up and before the early bud stage (15 – 25 cm tall).
 - Field bindweed is in the flowering stage.
 - Other weeds are in the early bud stage of growth.
2. Cultivate 3 weeks after application

Stubble Treatment Notes:

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

DO NOT APPLY BY AIR.

Weeds Controlled

RATE PER HECTARE PROBE HERBICIDE	WEEDS CONTROLLED	RECROPPING IN YEAR FOLLOWING
1.7 kg	Canada thistle curled dock (top growth) English daisy field bindweed goldenrod perennial sow thistle tansy ragwort	cereals soybeans field corn white beans sweet corn

ROSETTE CONTROL IN SUMMERFALLOW

Treatment Notes

1. 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.
2. Spray in 110-220 L of water/ha when the majority of thistles have emerged as low growing rosettes 15 to 25 cm across.
3. Apply at least two weeks prior to a killing frost.
4. Cultivate three weeks after application.

DO NOT APPLY BY AIR.

Weeds Controlled

RATE PER HECTARE PROBE HERBICIDE	WEEDS CONTROLLED
0.86 kg	Canada thistle

ANNUAL WEED CONTROL**Treatment Notes**

Apply PROBE Herbicide plus 2,4-D Amine in the spring to emerged, actively growing seedling weeds at the 2 to 4-leaf stage.

In Reduced Tillage Fallow

RATE PER HECTARE PROBE HERBICIDE	RATE PER HECTARE/TANK MIX PARTNER ¹	WEEDS CONTROLLED
0.16 – 0.2 kg	1.1 L/ha 2,4-D amine	Canada thistle (top growth) cow cockle flixweed green smartweed kochia lady's-thumb lamb's-quarters perennial sow-thistle (top growth) redroot pigweed Russian thistle shepherd's purse stinkweed tartary buckwheat wild buckwheat

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.

Buffer zones:

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

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		0	0	0	0	1
	Corn, red fescue		1	1	0	0	4
	Stubble fields, fallow land		1	1	0	0	5
	Pasture, range land		1	1	0	0	10
Aerial (W. Canada only)	Wheat, barley, oats, rye	Fixed wing	0	0	0	0	50
		Rotary	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 Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to PROBE 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 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.

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