

2016-5135
2017-03-17

PRINCIPAL DISPLAY PANEL

GROUP	2	HERBICIDE
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PP-23235 HERBICIDE

Soluble Granules

FOR SALE FOR USE ON WHEAT (SPRING AND DURUM), SPRING BARLEY AND ESTABLISHED CREEPING RED FESCUE GROWN FOR FORAGE AND SEED PRODUCTION IN THE PRAIRIE PROVINCES AND THE PEACE RIVER REGION OF BRITISH COLUMBIA

AGRICULTURAL

REGISTRATION NO. 29262 PEST CONTROL PRODUCTS ACT

GUARANTEE:	Thifensulfuron-methyl	23.1%
	Tribenuron-methyl	23.1%
	Metsulfuron-methyl	4.6%

Warning: Contains the allergen milk, sulfites

POTENTIAL SKIN SENSITIZER

NET CONTENTS: 200 grams – 25 Kg

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

E. I. du Pont Canada Company
Agricultural Products
Box 2300 Streetsville
Mississauga, Ontario
L5M 2J4
1-800-667-3925

PRECAUTIONS:

- POTENTIAL SKIN SENSITIZER
- KEEP OUT OF REACH OF CHILDREN.
- AVOID BREATHING SPRAY MIST. USE WITH ADEQUATE VENTILATION.
- AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR GOGGLES OR FACE SHIELD, COVERALLS, AND SUITABLE CHEMICAL RESISTANT GLOVES DURING MIXING, LOADING, CLEAN UP AND REPAIR. LONG PANTS AND LONG SLEEVES SHOULD BE WORN DURING APPLICATION. CHEMICAL RESISTANT GLOVES ARE NOT REQUIRED WHILE OPERATING GROUNDBOOM SPRAYERS.
- DO NOT CONTAMINATE ANY BODY OF WATER.
- MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES EYE AND SKIN IRRITATION.
- WHEN USING, DO NOT EAT, DRINK OR SMOKE. WASH SKIN THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.
- REMOVE CONTAMINATED CLOTHING IMMEDIATELY AFTER USE. STORE AND WASH CONTAMINATED CLOTHING SEPARATELY FROM HOUSEHOLD LAUNDRY BEFORE REUSE.
- DO NOT APPLY BY AIR
- DO NOT ENTER OR ALLOW WORKER ENTRY INTO TREATED AREAS FOR 12 HOURS FOLLOWING APPLICATION

FIRST AID:**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.

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 SWALLOWED:

Call a poison control centre or doctor 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.

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.

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

For medical emergencies call 1-800-441-3637 (24 hours).

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

DISPOSAL:

If this is a cardboard container:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

If this is a refillable container:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

If this is a returnable container:

Do not reuse this container for any other purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For all package types:

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.

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.

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PRECAUTIONS:

- POTENTIAL SKIN SENSITIZER
- KEEP OUT OF REACH OF CHILDREN.
- AVOID BREATHING SPRAY MIST. USE WITH ADEQUATE VENTILATION.
- AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR GOGGLES OR FACE SHIELD, COVERALLS, AND SUITABLE CHEMICAL RESISTANT GLOVES DURING MIXING, LOADING, CLEAN UP AND REPAIR. LONG PANTS AND LONG SLEEVES SHOULD BE WORN DURING APPLICATION. CHEMICAL RESISTANT GLOVES ARE NOT REQUIRED WHILE OPERATING GROUNDBOOM SPRAYERS.
- DO NOT CONTAMINATE ANY BODY OF WATER.
- MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES EYE AND SKIN IRRITATION.
- WHEN USING, DO NOT EAT, DRINK OR SMOKE. WASH SKIN THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.
- REMOVE CONTAMINATED CLOTHING IMMEDIATELY AFTER USE. STORE AND WASH CONTAMINATED CLOTHING SEPARATELY FROM HOUSEHOLD LAUNDRY BEFORE REUSE.
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- DO NOT ENTER OR ALLOW WORKER ENTRY INTO TREATED AREAS FOR 12 HOURS FOLLOWING APPLICATION

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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.

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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.

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Call a poison control centre or doctor 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.

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.

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

For medical emergencies call 1-800-441-3637 (24 hours).

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

- Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided. Observe buffer zones specified under DIRECTIONS FOR USE.
- Do not remove soil from treated fields for use on lawns, in gardens or for back fill.
- Do not contaminate irrigation water. Do not apply to land where tail water will be used to irrigate cropland.
- Do not apply more than 32.5 g per hectare of PP-23235 Herbicide per crop year.
- TOXIC to aquatic organisms, plants and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.
- 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 or fine textured such as clay).
- Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.
- As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.
- **Leaching:** The use of this chemical may result in contamination of groundwater, particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

TABLE OF CONTENTS:

PMRA APPROVED LABEL, JB SUB. NO. 2016-1391, 2016-08-02ERROR! BOOKMARK NOT DEFINED.

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PRINCIPAL DISPLAY PANEL 1

PRECAUTIONS:..... 2

FIRST AID: 2

IF IN EYES:.....2

IF ON SKIN OR CLOTHING:.....2

IF SWALLOWED:.....2

IF INHALED:.....2

TOXICOLOGICAL INFORMATION:..... 2

STORAGE: 3

DISPOSAL:..... 3

NOTICE TO USER:..... 3

DFU BOOKLET 4

PRECAUTIONS:..... 5

IF IN EYES:.....5

IF ON SKIN OR CLOTHING:.....5

IF SWALLOWED:.....5

IF INHALED:.....5

TOXICOLOGICAL INFORMATION:..... 5

ENVIRONMENTAL PRECAUTIONS: 6

PRODUCT DESCRIPTION: 7

REPLANTING TO OTHER CROPS 8

GRAZING/HARVEST RESTRICTIONS:..... 8

VARIETY RESTRICTIONS:..... 8

RAINFESTNESS INFORMATION: 8

APPLICATION INFORMATION:	8
APPLICATION PRECAUTIONS:.....	8
APPLICATION INSTRUCTIONS:	9
DIRECTIONS FOR USE:	9
BUFFER ZONES:	9
WHEAT (SPRING, DURUM) AND SPRING BARLEY	10
<i>PP-23235 HERBICIDE</i>	10
<i>PP-23235 Herbicide + 2,4-D ESTER</i>	11
<i>PP-23235 Herbicide + MCPA Ester</i>	12
<i>PP-23235 Herbicide + PUMA^{*120} SUPER</i>	12
<i>PP-23235 HERBICIDE + CRESTIVO* Herbicide + MCPA Ester</i>	13
SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY.....	14
<i>PP-23235 HERBICIDE + AXIAL* 100EC Herbicide</i>	14
<i>PP-23235 HERBICIDE + AXIAL* 100EC Herbicide + MCPA Ester</i>	14
SPRING WHEAT AND DURUM WHEAT.....	15
<i>PP-23235 Herbicide + HARMONY® GRASS or HARMONY® GRASS 128EC Herbicide</i>	15
<i>PP-23235 Herbicide + HARMONY® GRASS + MCPA Ester</i>	16
<i>PP-23235 Herbicide + HORIZON* 240 EC Herbicide</i>	16
<i>PP-23235 Herbicide + HORIZON* 240 EC Herbicide + MCPA Ester</i>	17
<i>PP-23235 Herbicide + HORIZON* NG Herbicide</i>	18
<i>PP-23235 Herbicide + HORIZON* NG Herbicide + MCPA Ester</i>	18
<i>PP-23235 Herbicide+ 2,4-D ESTER + EVEREST* 70 WDG OR EVEREST* SOLUPAK 70 DF</i>	19
ESTABLISHED CREEPING RED FESCUE GROWN FOR FORAGE AND SEED PRODUCTION.....	19
MIXING INFORMATION:.....	21
MIXING PRECAUTIONS:.....	21
MIXING DIRECTIONS:	21
SPECIAL MIXING INSTRUCTIONS FOR CHEMICAL HANDLERS.....	21
EQUIPMENT CLEANING INFORMATION:	22
CLEANING PRECAUTIONS:	22
CLEANING INSTRUCTIONS:	22
RESISTANCE-MANAGEMENT RECOMMENDATIONS:	23
STORAGE:	23
DISPOSAL:	23
NOTICE TO USER:	24

PRODUCT DESCRIPTION:

PP-23235 Herbicide is recommended for selective post-emergent control or suppression of broadleaf weeds in wheat (spring and durum) and spring barley not underseeded to legumes or grasses, and in certain grasses for forage or seed production.

PP-23235 Herbicide contains three active ingredients formulated as water soluble granules. It is non-corrosive, non-flammable, non-volatile and does not freeze.

PP-23235 Herbicide is to be mixed with water and a recommended adjuvant and applied as a uniform broadcast spray. Recommended adjuvants are: AGRAL* 90, AG-SURF* and CITOWETT* PLUS. Apply early postemergence, to the main flush of actively growing broadleaf weeds. APPLY WITH GROUND EQUIPMENT ONLY.

Warm, moist growing conditions promote active weed growth and enhance the activity of PP-23235 Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. For best results, ensure thorough spray coverage of target weeds. See "DIRECTIONS FOR USE" section of this label for complete use details.

PP-23235 Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

IMPORTANT INFORMATION: READ BEFORE USING

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

- Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, recreational grounds or similar areas.
- Prevent drift of spray to desirable plants.
- Do not contaminate any body of water, including irrigation water that may be used on other crops.
- Carefully observe sprayer clean-up instructions, as spray tank residues may damage crops other than wheat and spring barley.

REPLANTING TO OTHER CROPS

MINIMUM CROP ROTATION GUIDELINES:

The following crops may be seeded 10 months after application: Canola, oats, peas and flax.

The following crops may be seeded 22 months after application: Lentils.

GRAZING/HARVEST RESTRICTIONS:

Wheat or spring barley may not be grazed or fed to livestock within 7 days of application.

VARIETY RESTRICTIONS:

Limit the use of PP-23235 Herbicide to currently licensed varieties of wheat (spring, durum, winter) and spring barley. Consult E. I. du Pont Canada Company prior to use on unlicensed varieties for crop tolerance information. **DO NOT USE ON LEGER SPRING BARLEY OR BELVEDERE WHEAT VARIETIES.**

RAINFALL INFORMATION:

Up to 25 mm of rain beginning 1 hour or more after spraying will not reduce the effectiveness of PP-23235 Herbicide.

APPLICATION INFORMATION:

APPLICATION PRECAUTIONS:

- DO NOT APPLY BY AIR.
- Do not apply to irrigated land where tail water will be used to irrigate cropland.
- Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided.
- Apply with an adjuvant registered for use with PP-23235 Herbicide. Use only water as a carrier. Other carriers may accelerate breakdown of PP-23235 Herbicide and reduce its effectiveness.
- Do not apply to crops underseeded to legumes or grasses as injury to forage may result.

- Application to crops that are stressed by severe weather conditions, frost, low fertility, water logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury.
- Under certain conditions, such as heavy rainfall, prolonged cool weather, frost or wide fluctuations in day/night temperatures, temporary lightening in crop colour, and occasionally, a slight reduction in crop height may occur.
- Do not apply more than 32.5 grams/hectare of PP-23235 Herbicide per year.
- Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

APPLICATION INSTRUCTIONS:

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh or larger filter screens (metal or nylon). A spray pressure of 210-275 kPa is recommended. Avoid overlapping and shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

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 classification. Boom height must be 60 cm or less above the crop or ground.

Buffer zones:

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands, riparian areas and shrub lands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Buffer Zones (metres) Required for the Protection of:		
	Aquatic Habitats of Depths:		Terrestrial Habitats*
	Less than 1 m	Greater than 1 m	
Field sprayer*	1	1	4

* 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%.

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.

Use of the following spray methods or equipment DO NOT require a buffer zone: spot treatment, soil drench and soil incorporation.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

WHEAT (SPRING, DURUM) AND SPRING BARLEY

PP-23235 HERBICIDE	
LOCATION: For use in the Prairie Provinces and Peace River Region of British Columbia only.	
CROP(S): Wheat (spring, durum) and spring barley	
TIMING: Post-emergent application from the 2-leaf stage to just before the flag leaf (shot blade) stage of wheat (including durum) and barley, prior to head emergence, but before the crop canopy will prevent thorough coverage of target weeds. Do not apply after head has emerged. For best results, apply to young, actively growing weeds that are less than 10 cm in height or diameter. Thorough coverage of target weeds is essential.	
APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
Adjuvants: Agral [®] 90, Ag-Surf [®] or Citowett [®] Plus	2 litres/1000 litres spray solution
MIXING: Mixing order is PP-23235 HERBICIDE, and then add adjuvant while maintaining agitation. Antifoaming agent may be required. Refer to MIXING DIRECTIONS section for general instructions.	
Weeds Controlled	Weeds Suppressed
Annual smartweed (green smartweed, lady's thumb)	Canada thistle (top growth control) ²
Common chickweed ³	
Cow cockle	
Dandelion (spring or fall rosettes up to 20 cm in diameter).	
Flixweed	
Hemp-nettle	
Kochia	
Lamb's-quarters	
Narrow-leaved hawk's beard (up to 20 cm)	
Night-flowering catchfly	
Redroot Pigweed	
Round-leaved Mallow (1-6 leaf)	
Russian thistle	
Scentless Chamomile	
Sow thistle (perennial)	
Stinkweed	
Stork's bill	
Volunteer Rapeseed ¹	
White cockle	
Wild Buckwheat	
Wild mustard	

Notes:

1. PP-23235 Herbicide alone will not control imazethapyr tolerant canola varieties (e.g. Clearfield* varieties or other varieties with the Pursuit Smart* trait)
2. Apply when the majority of thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be controlled.
3. Apply when common chickweed is small (1-6 leaf) and actively growing, but before crop canopy prevents thorough coverage of weeds. Chickweed emerging after application will not be controlled

PP-23235 Herbicide + 2,4-D ESTER	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	
CROP(S): Wheat (spring, durum) and spring barley	
TIMING: Post-emergent application from full 3-leaf to just before flag leaf (shot blade) growth stage of crop.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
2,4-D Ester 700LV	0.6 L/ha (or 420 g/ha acid equivalent)
Adjuvants: AGRAL [®] 90, AG-SURF [®] or CITOWETT [®] PLUS	2 litres/1000 litres of spray solution
MIXING: Ensure that PP-23235 Herbicide is dissolved before adding 2,4-D. Then add 2,4-D while continuing agitation, then adjuvant. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last. Consult the 2,4-D label for additional application instructions and use precautions.	
Weeds Controlled	
Broadleaf weeds controlled by PP-23235 Herbicide alone, as well as weeds controlled or suppressed by 2,4-D Ester	
Notes:	
Volunteer Rapeseed: For imazethapyr tolerant canola varieties (e.g. varieties with the Clearfield* or Pursuit Smart* traits) consult 2,4-D label for appropriate use rates.	
Canada thistle: Apply when the majority of thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. PP-23235 Herbicide + 2,4-D will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be controlled.	

PP-23235 Herbicide + MCPA Ester	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	
CROP (S): Spring wheat (including durum) and spring barley	
TIMING: Post-emergent application from full 3-leaf to just before flag leaf (shot blade) growth stage of crop.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
MCPA Ester 500	0.56 L/ha
Or	Or
MCPA Ester 600	0.47 L/ha
MIXING: Ensure that PP-23235 Herbicide is dissolved before adding MCPA Ester. Then add MCPA Ester while continuing agitation. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last. Consult the MCPA Ester label for additional application instructions and use precautions.	
Weeds Controlled	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, as well as annual sow thistle and volunteer imazethapyr tolerant canola varieties (e.g. Clearfield* canola or other varieties with the Pursuit* Smart trait). Apply when volunteer canola is in the 2-4 leaf stage.	

PP-23235 Herbicide + PUMA*¹²⁰ SUPER	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	
CROP(S): Spring wheat (including durum) and spring barley	
TIMING: Post-emergent application from 2 to 6-leaf plus 3 tillers growth stage of spring and durum wheat; 2 to 5-leaf plus 2 tillers growth stage of spring barley. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of third tiller. For green foxtail control, apply at the 1-6 leaf (up to emergence of the 3 rd tiller) stage.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
PUMA* ¹²⁰ SUPER	385 ml/hectare for green foxtail only 770 ml/hectare for wild oats, barnyard grass, green foxtail and yellow foxtail.
No adjuvant required.	
MIXING: Ensure that PP-23235 Herbicide is completely dissolved before adding Puma* ¹²⁰ Super. Then add Puma* ¹²⁰ Super. Refer to MIXING DIRECTIONS section for general directions. Consult the Puma* ¹²⁰ Super label for additional information on appropriate weed staging, application instructions, environmental and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, as well as wild oats, green foxtail, barnyard grass and yellow foxtail.	

PP-23235 HERBICIDE + CRESTIVO* Herbicide + MCPA Ester	
LOCATION: For use in the Prairie Provinces and Peace River Region of British Columbia only.	
CROP(S): Spring wheat (including durum) and spring barley only	
TIMING: Post-emergent application from 3 leaf to flag leaf. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of 4 th tiller.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
CRESTIVO* Herbicide	400 mL/hectare for control of Persian darnel 600 mL/hectare for control of wild oats, yellow foxtail, volunteer oats, volunteer canary seed and proso millet plus suppression of green foxtail and barnyard grass
MCPA ESTER 500	0.56 litres/hectare
OR	OR
MCPA ESTER 600	0.47 litres/hectare
ADIGOR* Adjuvant	700 mL/hectare
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Then add Crestivo* Herbicide with reduced agitation, followed by MCPA Ester then Adigor* adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions. Consult the Crestivo* Herbicide and MCPA Ester labels for application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, plus volunteer imazethapyr tolerant canola varieties (e.g. Clearfield* varieties or other varieties with the Pursuit Smart* trait), Persian darnel, wild oats, yellow foxtail, volunteer oats, volunteer canary seed and proso millet plus suppression of green foxtail and barnyard grass	
NOTES: Do not harvest within 60 days for grain and straw and 30 days for hay. Do not graze treated crop for 7 days after application. Consult Crestivo* Herbicide label for additional information on appropriate weed staging, application instructions, environmental and use precautions.	

SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY

PP-23235 HERBICIDE + AXIAL* 100EC Herbicide	
LOCATION: For use in the Prairie provinces and Peace River Region of British Columbia only.	
CROP(S): Spring wheat (excluding durum) and spring barley only	
TIMING: Post-emergent application from 1 leaf to flag leaf. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of 4 th tiller.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
AXIAL* 100 EC Herbicide	600 mL/hectare
ADIGOR* Adjuvant	700 mL/hectare
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Then add Axial* 100 EC Herbicide with reduced agitation, and finally Adigor* adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions. Consult the Axial* 100EC Herbicide label for application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, plus wild oats, volunteer oats, green foxtail, yellow foxtail, volunteer canary seed and proso millet.	
NOTES: Do not harvest within 60 days for grain and straw and 30 days for hay. Do not graze treated crop for 7 days after application. Consult AXIAL* 100 EC Herbicide label for additional information on appropriate weed staging, application instructions, environmental and use precautions.	

PP-23235 HERBICIDE + AXIAL* 100EC Herbicide + MCPA Ester	
LOCATION: For use in the Prairie Provinces and Peace River Region of British Columbia only.	
CROP(S): Spring wheat (excluding durum) and spring barley only	
TIMING: Post-emergent application from 3 leaf to flag leaf. For annual grass weeds, apply from 1 to 6-leaf stage, up to emergence of 4 th tiller.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
AXIAL* 100 EC Herbicide	600 mL/hectare
MCPA ESTER 500	0.56 litres/hectare
OR	OR
MCPA ESTER 600	0.47 litres/hectare
ADIGOR* Adjuvant	700 mL/hectare
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Add Axial* 100 EC Herbicide with reduced agitation, followed by MCPA Ester, then Adigor* adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions. Consult the Axial* 100EC Herbicide label and MCPA Ester label for application instructions and use precautions.	

WEEDS CONTROLLED

Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, plus volunteer imazethapyr tolerant canola varieties (e.g. Clearfield* varieties or other varieties with the Pursuit Smart* trait), wild oats, yellow foxtail, volunteer oats, volunteer canary seed and proso millet plus suppression of green foxtail and barnyard grass,

NOTES: Do not harvest within 60 days for grain and straw and 30 days for hay. Do not graze treated crop for 7 days after application. Consult AXIAL* 100 EC Herbicide label for additional information on appropriate weed staging, application instructions, environmental and use precautions.

SPRING WHEAT AND DURUM WHEAT

PP-23235 Herbicide + HARMONY® GRASS or HARMONY® GRASS 128EC Herbicide

LOCATION: For use in the Prairie provinces and Peace River Region of British Columbia only.

CROP: Wheat (spring and durum) only, **not underseeded to legumes**

TIMING: Post-emergent application from 2-leaf to flag leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3rd tiller.

TANK MIX COMPONENTS AND APPLICATION RATES

PP-23235 Herbicide	32.5 grams/hectare
HARMONY® GRASS or HARMONY® GRASS 128EC Herbicide	0.438 L/Ha

No adjuvant required.

MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Reduce agitation, and then add HARMONY® GRASS or HARMONY® GRASS 128EC Herbicide. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha. Consult the HARMONY® GRASS or HARMONY® GRASS 128EC Herbicide label for additional application instructions and use precautions.

WEEDS CONTROLLED

Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, green foxtail and wild oats.

NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application.

PP-23235 Herbicide + HARMONY® GRASS + MCPA Ester	
LOCATION: For use in the Prairie provinces and Peace River Region of British Columbia only.	
CROP: Wheat (spring and durum) only, not underseeded to legumes	
TIMING: Post-emergent application from 3-leaf to prior to emergence of the 4 th tiller growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4 th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3 rd tiller. Apply to actively growing volunteer canola in the 2-4 leaf stage.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
HARMONY® GRASS	0.438 L/Ha
MCPA ESTER 500	0.56 litres/hectare
OR	OR
MCPA ESTER 600	0.47 litres/hectare
No adjuvant required.	
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Reduce agitation, and then add HARMONY® GRASS followed by MPCA Ester. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha. Consult the HARMONY® GRASS and MCPA Ester labels for additional application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, green foxtail, wild oats and imazethapyr tolerant canola varieties (e.g. Clearfield* varieties or other varieties with the Pursuit Smart* trait).	
NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application.	

PP-23235 Herbicide + HORIZON* 240 EC Herbicide	
LOCATION: For use in the Prairie provinces and Peace River Region of British Columbia only.	
CROP: Wheat (spring and durum) only, not underseeded to legumes	
TIMING: Post-emergent application from 2-leaf to flag leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4 th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3 rd tiller.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
HORIZON* 240 EC	0.230 L/Ha
Adjuvant: SCORE*	0.8 litre per 100 litres spray solution
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Reduce agitation, and then add Horizon* 240 EC. Then add Score* adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha. Consult the Horizon* 240 EC label for additional application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, green foxtail and wild oats.	
NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application.	

PP-23235 Herbicide + HORIZON* 240 EC Herbicide + MCPA Ester	
LOCATION: For use in the Prairie provinces and Peace River Region of British Columbia only.	
CROP: Wheat (spring and durum) only, not underseeded to legumes	
TIMING: Post-emergent application from 3-leaf to prior to emergence of the 4 th tiller growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4 th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3 rd tiller. Apply to actively growing volunteer canola in the 2-4 leaf stage.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
HORIZON* 240 EC	0.230 L/Ha
MCPA ESTER 500	0.56 litres/hectare
OR	OR
MCPA ESTER 600	0.47 litres/hectare
Adjuvant: SCORE*	0.8 L/Ha
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Reduce agitation, and then add Horizon* 240 EC followed by MCPA Ester and then Score* adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha. Consult the Horizon* 240 EC and MCPA Ester labels for additional application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, green foxtail, wild oats and imazethapyr tolerant canola varieties (e.g. Clearfield* varieties or other varieties with the Pursuit Smart* trait).	
NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application.	

PP-23235 Herbicide + HORIZON* NG Herbicide	
LOCATION: For use in the Prairie provinces and Peace River Region of British Columbia only.	
CROP: Wheat (spring and durum) only, not underseeded to legumes	
TIMING: Post-emergent application from 2-leaf to flag leaf growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4 th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3 rd tiller.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
HORIZON* NG Herbicide	0.930 L/Ha
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Reduce agitation, and then add HORIZON* NG Herbicide. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha. Consult the HORIZON* NG Herbicide label for additional application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, green foxtail and wild oats.	
NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application.	

PP-23235 Herbicide + HORIZON* NG Herbicide + MCPA Ester	
LOCATION: For use in the Prairie provinces and Peace River Region of British Columbia only.	
CROP: Wheat (spring and durum) only, not underseeded to legumes	
TIMING: Post-emergent application from 3-leaf to prior to emergence of the 4 th tiller growth stage of the crop. Apply to actively growing wild oats from the 1 to 6-leaf stage, prior to emergence of the 4 th tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3 rd tiller. Apply to actively growing volunteer canola in the 2-4 leaf stage.	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
HORIZON* NG Herbicide	0.93 L/Ha
MCPA ESTER 500	0.56 litres/hectare
OR	OR
MCPA ESTER 600	0.47 litres/hectare
No adjuvant required.	
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Reduce agitation, and then add Horizon* NG Herbicide followed by MPCA Ester. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha. Consult the Horizon NG Herbicide and MCPA Ester labels for additional application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, green foxtail, wild oats and imazethapyr tolerant canola varieties (e.g. Clearfield* varieties or other varieties with the Pursuit Smart* trait)	
NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application.	

PP-23235 Herbicide+ 2,4-D ESTER + EVEREST* 70 WDG OR EVEREST* SOLUPAK 70 DF	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	
CROP (S): Spring wheat (including durum).	
TIMING: Apply to wheat in the 3 to 4 leaf stage, plus 2 tillers; to wild oats, green foxtail and tame oats in the 1-6 leaf stage (1-4 leaves on main stem, plus 2 tillers).	
TANK MIX COMPONENTS AND APPLICATION RATES	
PP-23235 Herbicide	32.5 grams/hectare
EVEREST* 70 WDG or EVEREST* SOLUPAK 70 DF	43 grams/hectare Or 28.5 grams/hectare
2,4-D Ester LV700	0.6 L/ha (or 420 g/ha acid equivalent)
Agral* 90 or AgSurf*	2.5 L/1000 L (0.25 % v/v)
MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Add EVEREST* Solupak 70 DF or EVEREST* 70 WDG while continuing agitation until these products are completely mixed. Reduce agitation, and add 2,4-D, and then adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Consult the 2,4-D and EVEREST* Solupak 70 DF or EVEREST* 70 WDG labels for additional information on rotational cropping restrictions, application instructions, use precautions and other restrictions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by PP-23235 Herbicide + 2,4-D, plus wild oats, green foxtail and volunteer tame oats.	
Use the higher rate of EVEREST* Solupak 70 DF or EVEREST* 70 WDG when wild oat infestations are greater than 100 plants/m ² or when plants are not actively growing due to poor environmental conditions.	
Note: Observe minimum interval to harvest of 80 days after treatment. For black, dark brown and grey-wooded soil zones only, field peas may be grown the year following application in fields where precipitation has been normal or above normal (10 year average) during the growing season, and where organic matter content is above 4% and pH below 7.5. Re-crop spring wheat only in brown soil zone. Consult the EVEREST* 70 WDG or EVEREST* SOLUPAK 70 DF labels for additional information on rotational crop restrictions, application instructions, use precautions and other restrictions.	

ESTABLISHED CREEPING RED FESCUE GROWN FOR FORAGE AND SEED PRODUCTION

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS
The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than E. I. du Pont Canada Company and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. E. I. du Pont Canada

Company itself makes no representation or warranty with respect to product performance (efficacy) and crop tolerance (phytotoxicity) of this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold E. I. du Pont Canada Company harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

FOR POST EMERGENT CONTROL OF BROADLEAF WEEDS IN ESTABLISHED CREEPING RED FESCUE GROWN FOR FORAGE AND SEED PRODUCTION IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA

Apply PP-23235 Herbicide at 32.5 g/ha formulated product plus a non-ionic surfactant at 0.2% v/v applied in a minimum spray volume of 55 L/ha to a crop that has been established for a minimum of one year. Application should be made from the 2 leaf, up to the shot blade stage of the crop, and before canopy closure to permit thorough coverage of actively growing weeds. Weeds should be small (< 10 cm or as directed on the label) and actively growing. Do not graze or feed to livestock within 7 days of application.

Refer to the appropriate sections of the PP-23235 Herbicide label for a complete list of weeds controlled, weed stage at application, as well as additional application and/or use precaution instructions, and/or mixing instructions.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact E.I du Pont Canada Company at 1-800-667-3925 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by E.I du Pont Canada Company.

MIXING INFORMATION:

MIXING PRECAUTIONS:

If the sprayer has been left standing for a period of time agitate thoroughly to re-suspend the tank mix partner before resuming spraying. Spray preparation should be used within 24 hours or product degradation may occur.

MIXING DIRECTIONS:

Select a spray volume that will ensure thorough coverage and a uniform spray pattern. Use a minimum of 55 L of spray volume per hectare. If tank mixing with other herbicides, always consult the label of the tank mix partner(s) for minimum spray volume requirements and apply the tank mixture using a water volume recommended for all products.

1. Always start with a clean and empty sprayer tank.
2. Fill the tank to 2/3 full of **clean** water.
3. With the agitator running, add the required amount of PP-23235 Herbicide. Continue to agitate for a minimum of 5 minutes to ensure that PP-23235 Herbicide is **completely** dissolved.
4. Make sure there are no un-dissolved granules, and then add the required amount of the tank mix partner. If the tank mix partner is an Emulsifiable Concentrate (EC), reduce agitation to avoid inducing an invert emulsion.
5. Add the rest of the water.
6. If required for the tank mixture, add the appropriate adjuvant. If an antifoam agent is required, add last.
7. Refer to the tank mix sections of this booklet for mixing order and other mixing instructions.
8. For repeat tank loads, reduce the material remaining in the tank to 10% of the original volume **or less** before proceeding with step 1, because remaining chemicals may prevent PP-23235 Herbicide granules from completely dissolving. If this is not possible, pre-slurry PP-23235 Herbicide in a small amount (5-10 L) of water before adding to the tank.

SPECIAL MIXING INSTRUCTIONS FOR CHEMICAL HANDLERS

1. Ensure the chemical handler is clean (rinsed with ammonia).
2. For best results, add PP-23235 Herbicide to the top of the sprayer tank.
3. If a chemical handler is used, make sure that all of the granules of PP-23235 Herbicide are completely dissolved and injected into the main tank with agitation before adding other chemicals.
4. Low water volumes in some chemical handlers can cause the water to become saturated with PP-23235 Herbicide, leaving un-dissolved granules. In that case, rinse the chemical handler with clean water before adding any other chemical.

5. Always dissolve the PP-23235 Herbicide granules with agitation in the main tank before adding a tank mix partner.

NOTE: Follow the clean-out procedure recommended for sprayer tanks for the chemical handler.

EQUIPMENT CLEANING INFORMATION:

CLEANING PRECAUTIONS:

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

DO NOT CLEAN SPRAYER NEAR WELL OR WATER SOURCE OR NEAR TO DESIRABLE VEGETATION.

CLEANING INSTRUCTIONS:

To avoid subsequent injury to crops other than wheat or spring barley, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of PP-23235 Herbicide from mixing and spray equipment as follows:

1. Drain tank and flush tank, boom and hoses with clean water. If boom is equipped with multiple nozzle bodies, be sure to rotate through all nozzles to ensure clean water reaches all parts of these assemblies.
2. Visually inspect tank to ensure removal of all visible herbicide residues. If necessary, repeat Step 1.
3. Fill the tank with clean water, and then add 1 litre household AMMONIA (containing minimum of 3% ammonia) or equivalent amount of a sprayer tank cleaner containing ammonia, per 100 litres of water. Ammonia will not neutralize the herbicide, but helps dissolve dried-on herbicide deposits. If an emulsifiable concentrate has been tank mixed with PP-23235 Herbicide, use of a wetting agent in the cleaning process will assist in removing oily residue that may trap PP-23235 Herbicide on the tank and hoses.
4. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation.
5. Drain the tank.
6. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
7. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that PP-23235 Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to PP-23235 Herbicide and other Group 2 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 PP-23235 Herbicide or other Group 2 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- ◆ Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- ◆ Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed competitive crops or varieties) and other management practices.
- ◆ Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- ◆ Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- ◆ Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- ◆ For further information or to report suspected resistance, contact your local DuPont representative or the DuPont hotline at 1-800-667-3925 for further information.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed

DISPOSAL:

If this is a cardboard container:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

If this is a refillable container:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

If this is a returnable container:

Do not reuse this container for any other purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For all package types:

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.

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.

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