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 INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION)

COMMERCIAL - AGRICULTURAL

REGISTRATION NO. 29262 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: 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 ACCOMPANYING BOOKLET BEFORE USING

FMC of Canada Limited 6755 Mississauga Road, Suite 204 Mississauga, ON L5N 7Y2 1-833-362-7722

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 APPICATION. 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 DURING THE RESTRICTED-ENTRY INTERVAL (REI) OF 12 HOURS

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.

IN CASE OF EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

STORAGE:

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

DISPOSAL:

If this is a recyclable Container:

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

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 information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean up of spills.

NOTICE TO USER:

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

DFU Booklet

GROUP 2 HERBICIDE

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 INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION)

COMMERCIAL - AGRICULTURAL

REGISTRATION NO. 29262 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Thifensulfuron-methyl 23.1%

Tribenuron-methyl 23.1% Metsulfuron-methyl 4.6%

Warning, contains the allergen milk, sulfites

POTENTIAL SKIN SENSITIZER

READ THE LABEL AND THIS ACCOMPANYING BOOKLET BEFORE USING

FMC of Canada Limited 6755 Mississauga Road, Suite 204 Mississauga, ON L5N 7Y2 1-833-362-7722

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 DURING THE RESTRICTED-ENTRY INTERVAL (REI) OF 12 HOURS.

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.

IN CASE OF EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

- TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.
- · Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.
- **Leaching:** This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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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. LIBERATE* ADJUVANT, AG-SURF* II, HIACTIVATE* NON-IONIC LIQUID SPREADER/ACTIVATOR, SUPER SPREADER ADJUVANT AND ENHANCE*. 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, dry beans, faba beans, field corn, flax, lentils, oats, peas and soybeans.

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,) and spring barley. Consult FMC prior to use on unlicensed varieties for crop tolerance information. DO NOT USE ON LEGER SPRING BARLEY OR BELVEDERE WHEAT VARIETIES.

RAINFASTNESS 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.
- 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.
- Do not remove soil from treated fields for use on lawns, in gardens or for back fill.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

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:

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

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

Field Sprayer Application:

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

Spray Buffer zones:

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- soil drench or soil incorporation.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, 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	Spray Buffer Zones (metres) Required for the Protection of:		
Application	Aquatic Habitats of Depths:		Terrestrial Habitat
	Less than 1 m	Greater than 1 m	
Field	1	1	4
sprayer			

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

TANK MIXES:

This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact FMC of Canada Limited at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on this label.

WHEAT (SPRING, DURUM) AND SPRING BARLEY

PP-23235 Herbicide		
LOCATION: For use in the Prairie Provinces and the interior of British Colombia (including the 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
Adjuvant, Ag-Surf II, HiActivate Non-ionic Liquid	Adjuvants: Agral* 90, Ag-Surf* or Citowett * Plus Liberate Adjuvant, Ag-Surf II, HiActivate Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant or Enhance	
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 Su	
Annual smartweed (green smartweed, lady's thumb)	Canada th	istle (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		

suppressed by 2,4-D Ester

Shepherd's purse (up to 20 cm)	
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 the interior	or of British Columbia (including the	
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	
Liberate Adjuvant, Ag-Surf II, HiActivate Non-ionic Liquid		
Spreader/Activator, Super Spreader Adjuvant or		
Enhance		
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.		
Weeds Controlled		
Broadleaf weeds controlled by PP-23235 Herbicide alone, as well as weeds controlled or		

Notes:

<u>Volunteer Rapeseed</u>: For imazethapyr tolerant canola varieties (e.g. varieties with the Clearfield* or Pursuit Smart* traits) consult 2,4-D label for appropriate use rates.

<u>Canada thistle:</u> 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 the interior of British Columbia (including the 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 MPCA Ester. Then add MCPA Ester while continuing agitation. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last.

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 + PERIMETER ® II Herbicide

LOCATION: For use in the prairie provinces and the interior of British Columbia (including the Peace River Region of British Columbia) only.

CROP (S): Spring wheat (including durum) and spring barley

TIMING: Post-emergent application from 2-leaf to initiation of stem elongation of spring wheat (including durum) and spring barley.

TANK MIX COMPONENTS AND APPLICATION RATES

PP-23235 Herbicide	32.5 grams/hectare
PERIMETER® II Herbicide*	0.21 L/ha
*PERIMETER® II Herbicide may be substituted with any equivalent 333 g a.e./L fluroxypyr product at the rate of 0.21 L/ha.	
Adjuvants: Agral* 90, Ag-Surf*, Citowett * Plus, Liberate Adjuvant, Ag-Surf II, HiActivate Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant or Enhance	2 litres/1000 litres spray solution

MIXING: Ensure that PP-23235 Herbicide is dissolved before adding PERIMETER® II Herbicide. Then add Perimeter® II Herbicide while continuing agitation, then adjuvant. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last.

Weeds Controlled

Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, as well as cleavers (1-6 whorl), kochia (including Group 2 resistant biotypes; up to 10 cm) and volunteer flax (up to 12 cm in height).

PP-23235 Herbicide + PERIMETER® II Herbicide + MCPA Ester

LOCATION: For use in the prairie provinces and the interior of British Columbia (including the Peace River Region of British Columbia) only.

CROP (S): Spring wheat (including durum) and spring barley

TIMING: Post-emergent application from 3-leaf to initiation of stem elongation of spring wheat		
(including durum) and spring barley.		
TANK MIX COMPONENTS AND APPLICATION RATES		
PP-23235 Herbicide	32.5 grams/hectare	
PERIMETER® II Herbicide*	0.21 L/ha	
* PERIMETER® II Herbicide may be substituted with any equivalent 333 g a.e./L fluroxypyr product at the rate of 0.21 L/ha.		
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 PERIMETER® II Herbicide. Add PERIMETER® II Herbicide while continuing agitation, and then add the MCPA Ester. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last.

Weeds Controlled

Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, as well as: Cleavers (1-6 whorl)

Kochia (including Group 2 resistant biotypes; up to 10 cm)

Volunteer flax (up to 12 cm in height).

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.

SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY

PP-23235 Herbicide + AXIAL* 100EC Herbicide LOCATION: For use in the Prairie provinces and the interior of British Columbia (including the 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 4th tiller. TANK MIX COMPONENTS AND APPLICATION RATES PP-23235 Herbicide AXIAL* 100 EC Herbicide 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-

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.

IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.

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.

PP-23235 Herbicide + AXIAL* 100EC Herbicide + MCPA Ester

LOCATION: For use in the Prairie Provinces and the interior of British Columbia (including the 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 4th tiller.

1 to 0-leaf stage, up to efficigence of 4 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* Adiuvant	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.

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.

PP-23235 Herbicide + PERIMETER® II Herbicide + AXIAL* Herbicide

LOCATION: For use in the Prairie provinces and the interior of British Columbia (including the 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 4th tiller.

TANK MIX COMPONENTS AND APPLICATION RATES

PP-23235 Herbicide	32.5 grams/hectare
PERIMETER® II Herbicide*	0.21 L/ha
*PERIMETER® II Herbicide may be substituted with any equivalent 333 g a.e./L fluroxypyr product at the rate of 0.21 L/ha.	
AXIAL* Herbicide	1200 mL/hectare

MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Add the PERIMETER® II Herbicide, followed by Axial* Herbicide with reduced agitation. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.

WEEDS CONTROLLED

Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, plus:

Cleavers (1-6 whorl)

Kochia (including Group 2 resistant biotypes; up to 10 cm)

Volunteer flax (up to 12 cm in height)

Wild oats

Volunteer oats

Green foxtail

Yellow foxtail

Volunteer canary seed

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.

PP-23235 Herbicide + PERIMETER® II Herbicide + AXIAL* Herbicide + MCPA Ester

LOCATION: For use in the Prairie Provinces and the interior of British Columbia (including the 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 4th tiller.

TANK MIX COMPONENTS AND APPLICATION RATES		
PP-23235 Herbicide	32.5 grams/hectare	
PERIMETER® II Herbicide*	0.21 L/ha	
*PERIMETER® II Herbicide may be substituted with any equivalent 333 g a.e./L		
fluroxypyr product at the rate of 0.21 L/ha.		
AXIAL* Herbicide	1200 mL/hectare	
MCPA ESTER 500	0.56 litres/hectare	
OR	OR	
MCPA ESTER 600	0.47 litres/hectare	

MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Add the PERIMETER® II Herbicide, followed by Axial* Herbicide with reduced agitation, then the MCPA Ester, DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.

WEEDS CONTROLLED

Broadleaf weeds controlled or suppressed by PP-23235 Herbicide alone, plus:

Cleavers (1-6 whorl)

Kochia (including Group 2 resistant biotypes; up to 10 cm)

Volunteer flax (up to 12 cm in height)

Volunteer imazethapyr tolerant canola varieties (e.g. Clearfield* varieties or other varieties with the Pursuit Smart* trait)

Wild oats

Volunteer oats

Green foxtail (suppression)

Yellow foxtail

Barnyard grass (suppression)

Volunteer canary seed

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.

SPRING WHEAT AND DURUM WHEAT

PP-23235 Herbicide + a listed Clodinafop product

LOCATION: For use in the Prairie provinces and the interior of British Columbia (including the 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	
NuFarm Clodinafop Herbicide, or NuFarm Signal* Herbicide	0.230 L/Ha	

Adjuvant: Add the required adjuvant recommended on the clodinafop product label

MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Reduce agitation, and then add the clodinafop product. Then add adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha.

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 + a listed Clodinafop product + MCPA Ester

LOCATION: For use in the Prairie provinces and the interior of British Columbia (including the 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 4th tiller 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. Apply to actively growing volunteer canola in the 2-4 leaf stage.

TANK MIX COMPONENTS AND APPLICATION RATES PP-23235 Herbicide NuFarm Clodinafop Herbicide, or NuFarm Signal* Herbicide MCPA ESTER 500 OR MCPA ESTER 600 OR 0.47 litres/hectare

Adjuvant: Add the required adjuvant recommended on the clodinafop product label

MIXING: Ensure that PP-23235 Herbicide is completely dissolved. Reduce agitation, and then add clodinafop product followed by MCPA Ester and then the adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha.

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 the interior of British Columbia (including the 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

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.

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 the interior of British Columbia (including the 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 4th tiller 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. 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
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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.

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.

ESTABLISHED CREEPING RED FESCUE GROWN FOR FORAGE AND SEED PRODUCTION

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than FMC under the User Requested Minor Use Label Expansion program. For these uses, FMC has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

FOR POST EMERGENT CONTROL OF BROADLEAF WEEDS IN ESTABLISHED CREEPING RED FESCUE GROWN FOR FORAGE AND SEED PRODUCTION IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE 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.

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.
- 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.
- 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.
- 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:

- 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 FMC representative or the FMC hotline at 1-833-362-7722 for further information.

STORAGE:

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

DISPOSAL:

If this is a recyclable Container:

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

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 information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean up of spills.

NOTICE TO USER:

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

PERIMETER is a trademark of FMC Corporation or an affiliate.

* All other products mentioned are trademarks of their respective companies.