

PRINCIPAL DISPLAY PANEL

GROUP	<b>2</b>	HERBICIDE
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**PREDICADE® BROADLEAF**

Herbicide

**Soluble Granule**

FOR SALE FOR USE ON WHEAT (SPRING, DURUM AND WINTER),  
SPRING BARLEY AND OATS

COMMERCIAL (AGRICULTURAL)

**REGISTRATION NO. 31713 PEST CONTROL PRODUCTS ACT**

<b>ACTIVE INGREDIENTS:</b>	Thifensulfuron-methyl	25%
	Tribenuron-methyl	25%

Warning, Contains the allergen milk, sulfites

POTENTIAL SKIN SENSITIZER

**NET CONTENTS:** 200 grams – 25 Kg

READ THE LABEL AND ACCOMPANYINGBOOKLET 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, LONG-SLEEVED SHIRT, LONG PANTS, SOCKS, COVERALLS, AND CHEMICAL RESISTANT GLOVES AND FOOTWEAR DURING MIXING, LOADING, APPLICATION CLEAN UP AND REPAIR. 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 USE HUMAN FLAGGERS
- DO NOT ENTER OR ALLOW WORKER RE-ENTRY FOR 12 HOURS AFTER 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, 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.

PREDICADE is a trademark of FMC Corporation or an affiliate.

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- AVOID BREATHING SPRAY MIST. USE WITH ADEQUATE VENTILATION.
- AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR GOGGLES OR FACE SHIELD, LONG-SLEEVED SHIRT, LONG PANTS, SOCKS, COVERALLS, AND CHEMICAL RESISTANT GLOVES AND FOOTWEAR DURING MIXING, LOADING, APPLICATION CLEAN UP AND REPAIR. 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 USE HUMAN FLAGGERS
- DO NOT ENTER OR ALLOW WORKER RE-ENTRY FOR 12 HOURS AFTER 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.

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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, 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 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.

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## **PRODUCT DESCRIPTION:**

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

PREDICADE® BROADLEAF is a 50% active ingredient herbicide formulated as a water soluble granule. It is non-corrosive, non-flammable, non-volatile and does not freeze.

PREDICADE® BROADLEAF 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.

Warm, moist growing conditions promote active weed growth and enhance the activity of PREDICADE® BROADLEAF 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.

PREDICADE® BROADLEAF 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:**

<b>Minimum Interval</b>	<b>Crop</b>
2 months	Canola, Flax, Lentils, Alfalfa
Next crop year	All crops

**GRAZING/HARVEST RESTRICTIONS:**

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

**VARIETY RESTRICTIONS:**

Limit use of PREDICADE® BROADLEAF to currently licensed varieties of wheat (spring, durum and winter), spring barley and oats. Consult FMC of Canada Limited 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 PREDICADE® BROADLEAF.

**APPLICATION INFORMATION:**

**APPLICATION PRECAUTIONS:**

- Do not apply to irrigated land where tail water will be used to irrigate cropland.
- 
- Apply with an adjuvant registered for use with PREDICADE® BROADLEAF. Use only water as a carrier. Other carriers may accelerate breakdown of PREDICADE® BROADLEAF 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 30 grams/hectare of PREDICADE® BROADLEAF 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 inversions, application equipment and sprayer settings.

## **APPLICATION INSTRUCTIONS:**

### **GROUND APPLICATION**

Apply the spray mixture uniformly with properly calibrated ground equipment. 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.

### **AERIAL APPLICATION:**

Apply only by fixed-wing or rotary aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

### **Use Precautions:**

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

### **Operator Precautions:**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### **Product Specific Precautions:**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-833-362-7722 or obtain technical advice from the distributor or your provincial agricultural representative.

Application of this specific product must meet and/or conform to the following:

Apply a minimum of 25 L of spray volume per hectare.

Apply a maximum of 50 L of spray volume per hectare.

**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.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Reduce drift caused by turbulent wingtip

vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

**Spray Buffer Zones:**

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- 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 Application	Crop		Spray Buffer Zones (metres) Required for the Protection of:		
			Aquatic Habitats of Depths:		Terrestrial Habitats
			Less than 1 m	Greater than 1 m	
Field sprayer*	Wheat (spring, durum and winter), spring barley, oats		1	0	15
Aerial	Wheat (spring, durum and winter), spring barley, oats	Fixed wing	1	0	125
		Rotary wing	1	0	100

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.

### **WHEAT (SPRING, DURUM AND WINTER) AND SPRING BARLEY**

<b>PREDICADE® BROADLEAF</b>	
<b>LOCATION:</b> No restrictions	
<b>CROP (S):</b> Spring wheat (including durum), winter wheat and spring barley	
<b>TIMING:</b> Post-emergent application from the 2-leaf stage to just before the flag leaf (shot blade) stage of wheat (including durum), winter wheat 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.	
<b>APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
Adjuvants: Agral® 90, Ag-Surf® or Citowett * Plus	2 litres/1000 litres spray solution
<b>MIXING:</b> Mixing order is PREDICADE® BROADLEAF, and then add adjuvant while maintaining agitation. Antifoaming agent may be required. Refer to MIXING DIRECTIONS section for general instructions.	
<b>Weeds Controlled</b>	<b>Weeds Suppressed</b>
Annual smartweed (green smartweed, lady's thumb)	Canada thistle <sup>2</sup>
Common chickweed <sup>4</sup>	
Cow cockle	
Flixweed	
Hemp-nettle	
Kochia <sup>3</sup>	
Lamb's-quarters	
Narrow-leaved hawk's beard	
Night flowering catchfly	
Redroot Pigweed	
Russian thistle	
Sow thistle (perennial)	
Stinkweed	
Volunteer Rapeseed <sup>1</sup>	
Wild Buckwheat	
Wild mustard	

Notes:

1. PREDICADE® BROADLEAF 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. PREDICADE® BROADLEAF alone will not control Group 2 resistant Kochia.
4. Apply when 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.

<b>PREDICADE® BROADLEAF + MCPA ESTER</b>	
<b>LOCATION:</b> No restrictions	
<b>CROP (S):</b> Spring wheat (including durum), winter wheat, spring barley and oats	
<b>TIMING:</b> Post-emergent application from full 3-leaf to just before flag leaf (shot blade) growth stage of crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
MCPA Ester 500	0.56 L/ha
Or	Or
MCPA Ester 600	0.47 L/ha
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF 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.	
<b>Weeds Controlled</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF alone, as well as white cockle, dandelion (spring and fall rosettes, up to 15 cm in diameter), scentless chamomile 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.	

<b>PREDICADE® BROADLEAF + 2,4-D ESTER</b>	
<b>LOCATION:</b> No restriction	
<b>CROP (S):</b> Spring wheat (including durum), winter wheat and spring barley	
<b>TIMING:</b> Post-emergent application from full 3-leaf to just before flag leaf (shot blade) growth stage of crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 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
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF 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.	
<b>Weeds Controlled</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF alone, as well as weeds controlled by 2,4-D Ester.	

<b>PREDICADE® BROADLEAF + PERIMETER® II HERBICIDE</b>	
<b>LOCATION:</b> No restrictions.	
<b>CROP (S):</b> Spring wheat (including durum), winter wheat and spring barley	
<b>TIMING:</b> Post-emergent application from 2-leaf to initiation of stem elongation of crop. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
PERIMETER® II Herbicide*	0.155 L/ha for control of cleavers (1-4 whorl) and kochia (including Group 2 resistant biotypes), seedling up to 8 leaf
* PERIMETER® II Herbicide may be substituted with any equivalent 333 g ae/L fluroxypyr product delivering either 52 g ae/ha or 70 g ae/ha at the labelled use rate.	0.21 L/ha for control of weeds listed below
Adjuvants: Agral* 90, Ag-Surf* or Citowett * Plus	2 litres/1000 litres spray solution
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF 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.	
<b>Weeds Controlled</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF 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) and stork's bill (1-6 leaf) and round-leaved mallow (1-5 leaf).	

### **WHEAT (SPRING, DURUM) AND SPRING BARLEY**

<b>PREDICADE® BROADLEAF + PERIMETER® HERBICIDE</b>	
<b>LOCATION:</b> For use in the prairie provinces and interior of British Columbia (including the Peace River Region) only	
<b>CROP (S):</b> Spring wheat (including durum) and spring barley	
<b>TIMING:</b> Post-emergent application from 2-leaf to initiation of stem elongation of crop.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
PERIMETER® Herbicide*	0.3 L/ha for cleavers and kochia (including Group 2 resistant biotypes; seedling up to 8 leaf)
♦ PERIMETER® Herbicide may be substituted with any equivalent 180 g ae/L fluroxypyr product delivering either 54 g ae/ha or 72 g ae/ha at the labelled use rate.	0.4 L/ha for control of weeds listed below
Adjuvants: Agral* 90, Ag-Surf* or Citowett * Plus	2 litres/1000 litres spray solution
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF is dissolved before adding PERIMETER® Herbicide. Then add PERIMETER® Herbicide while continuing agitation, then adjuvant. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last.	
<b>Weeds Controlled</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF alone, as well as cleavers (1-4 whorl), kochia (including Group 2 resistant biotypes; up to 10 cm) stork's bill (1-6 leaf) and volunteer flax (up to 12 cm in height) and round-leaved mallow (1-5 leaf).	

<b>PREDICADE® BROADLEAF + BANVEL* II or BANVEL* Dry EG Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and interior of British Columbia (including the Peace River Region) only.	
<b>CROP (S):</b> Spring wheat (including durum) and spring barley	
<b>TIMING:</b> Apply the tank mix from the 2-5 leaf stage wheat (including durum) and barley, and to kochia plants up to the 8-leaf stage. Expect superior results when kochia is small. Use the higher rate of Banvel II or Banvel Dry EG Herbicide when the majority of Kochia plants are at or near the 8-leaf stage, or when growing conditions are not favourable.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
Banvel* II Herbicide or	110 – 145 mL/ha or
Banvel*Dry EG Herbicide	76 - 100 g/ha
Adjuvants: AGRAL* 90, AG-SURF* or CITOWETT* PLUS	2 litres/1000 litres of spray solution
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF is dissolved before adding Banvel II or Banvel Dry EG Herbicide. Refer to MIXING DIRECTIONS section for general directions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF plus Group 2 resistance KOCHIA.	

<b>PREDICADE® BROADLEAF + 2,4-D ESTER + BANVEL* II or BANVEL* Dry EG Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and interior of British Columbia (including the Peace River Region) only.	
<b>CROP (S):</b> Spring wheat (including durum) and spring barley	
<b>TIMING:</b> Apply the tank mix from the 3-5 leaf stage of wheat (including durum) and barley, and to kochia plants up to the 8-leaf stage. Expect superior results when kochia is small. Use the higher rate of Banvel* II or Banvel* Dry EG Herbicide when the majority of Kochia plants are at or near the 8-leaf stage, or when growing conditions are not favourable.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
Banvel* II Herbicide or	110 – 145 mL/ha or
Banvel* Dry EG Herbicide	76 - 100 g/ha
2,4-D Ester LV700	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
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF is dissolved before adding Banvel* II or Banvel* Dry EG Herbicide. Add 2,4-D Ester last. Refer to MIXING DIRECTIONS section for general directions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF plus 2,4-D Ester, plus Group 2 resistance KOCHIA.	



## SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY

<b>PREDICADE® BROADLEAF + AXIAL* 100EC Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and interior of British Columbia (including the Peace River Region) only.	
<b>CROP(S):</b> Spring wheat (excluding durum) and spring barley only	
<b>TIMING:</b> 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 <sup>th</sup> tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
AXIAL* 100 EC Herbicide	600 mL/hectare
ADIGOR* Adjuvant	700 mL/hectare
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF is completely dissolved. Then add Axial* 100 EC Herbicide with reduced agitation, and finally either Adigor* adjuvant. DO NOT USE ADDITIONAL NON-IONIC SURFACTANT. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF alone, plus wild oats, volunteer oats, green foxtail, yellow foxtail, volunteer canary seed and proso millet.	
<b>NOTES:</b> 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.	

## FOR WEED CONTROL IN SPRING WHEAT, DURUM WHEAT AND WINTER WHEAT

<b>PREDICADE® BROADLEAF + PREDICADE® GRASS Herbicide + PERIMETER® II Herbicide + MCPA Ester</b>	
<b>LOCATION:</b> For use in the prairie provinces and interior of British Columbia (including the Peace River Region) only.	
<b>CROP (S):</b> Spring wheat (including durum) and winter wheat	
<b>TIMING:</b> Post-emergent application from 3-leaf to 6-leaf on main stem, plus 3 tillers but prior to jointing (presence of first node) of spring wheat and durum wheat. For winter wheat apply in the spring from the 3-tiller to full tillering, but prior to jointing (presence of first node).	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
PREDICADE® GRASS Herbicide	0.5 L/ha
PERIMETER® II HERBICIDE*	0.21 L/ha
* PERIMETER® II Herbicide may be substituted with any equivalent 333 g ae/L fluroxypyr product delivering 70 g ae/ha at the labelled use rate.	
MCPA Ester 500 Or MCPA Ester 600	0.56 L/ha Or 0.47 L/ha
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF is completely dissolved. Reduce agitation, and then add the PREDICADE® GRASS Herbicide. Add the PERIMETER® II Herbicide, followed by MCPA. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last.	

<b>Weeds Controlled</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF alone, plus:	
<b>Broadleaf Weeds</b>	<b>Stage</b>
Dandelion (spring and fall rosettes)	Up to 15 cm in diameter
Cleavers	1-6 whorl
Kochia (including Group 2 resistant biotypes;	up to 10 cm
Pale smartweed	1-6 leaf
Round-leaved mallow	1-5 leaf
Scentless chamomile	up to 10 cm in height
Shepherd's purse	1-6 leaf
Stork's bill	1-6 leaf
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.
Volunteer flax	Up to 12 cm in height
White cockle	Up to 10 cm in height
<b>Grass Weeds</b>	<b>Stage</b>
Wild oats	1 to 6 leaves, up to emergence of the 3 <sup>rd</sup> tiller
Green foxtail	1 to 6 leaves, up to emergence of the 3 <sup>rd</sup> tiller
Barnyard grass	1 to 6 leaves, up to emergence of the 3 <sup>rd</sup> tiller
Yellow foxtail (Suppression only)	1 to 6 leaves, up to emergence of the 3 <sup>rd</sup> tiller
Persian darnel (Suppression only)	1 to 6 leaves, up to emergence of the 3 <sup>rd</sup> tiller
Volunteer canary seed	1 to 6-leaves, up to emergence of 2 <sup>nd</sup> tiller
Japanese Brome. Control of spring-germinated Japanese Brome. Suppression of overwintered Japanese Brome. Best results are obtained after a pre-seed or burndown application with a glyphosate herbicide.	1 to 6-leaf stage

**FOR WEED CONTROL IN SPRING WHEAT AND DURUM WHEAT**

<b>PREDICADE® BROADLEAF + HORIZON* NG Herbicide</b>	
<b>LOCATION:</b> For use in the prairie provinces and interior of British Columbia (including the Peace River Region) only.	
<b>CROP:</b> Wheat (spring and durum) only, <b>not underseeded to legumes</b>	
<b>TIMING:</b> 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 <sup>th</sup> tiller and to green foxtail from the 1 to 5-leaf stage, prior to emergence of the 3 <sup>rd</sup> tiller.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
HORIZON* NG Herbicide	0.930 L/Ha
No adjuvant required.	
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF 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.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF alone, green foxtail and wild oats.	
<b>NOTES:</b> Do not permit lactating dairy animals to graze fields within 7 days after application.	

<b>PREDICADE® BROADLEAF + SIMPLICITY*</b>	
<b>LOCATION:</b> For use in the Prairie Provinces and interior of British Columbia (including the Peace River Region) only .	
<b>CROP(S):</b> Spring wheat and durum wheat.	
<b>TIMING:</b> Post-emergent application to spring wheat and durum wheat from the 3-leaf stage to the first node stage.	
<b>TANK MIX COMPONENTS AND APPLICATION RATES</b>	
PREDICADE® BROADLEAF	30 grams/hectare
SIMPLICITY*	500 mL/hectare
Adjuvants: AGRAL* 90, AG-SURF* or CITOWETT* PLUS	2.5 litres/1000 litres of spray solution
<b>MIXING:</b> Ensure that PREDICADE® BROADLEAF is completely dissolved. Reduce agitation, and then add SIMPLICITY*, followed by adjuvant. Refer to MIXING DIRECTIONS section for general instructions.	
<b>WEEDS CONTROLLED</b>	
Broadleaf weeds controlled or suppressed by PREDICADE® BROADLEAF alone, plus weeds listed on the SIMPLICITY* label.	

## **MIXING INFORMATION:**

### **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.

### **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 for ground application, and between 25 to 50 L of spray volume per hectare for aerial application. 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 PREDICADE® BROADLEAF. Continue to agitate for a minimum of 5 minutes to ensure that PREDICADE® BROADLEAF 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 PREDICADE® BROADLEAF granules from completely dissolving or dispersing.

If this is not possible, pre-slurry PREDICADE® BROADLEAF 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 PREDICADE® BROADLEAF to the top of the sprayer tank.
3. If a chemical handler is used, make sure that all of the granules of PREDICADE® BROADLEAF are completely dissolved/dispersed 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 PREDICADE® BROADLEAF, leaving un-dissolved granules. In that case, rinse the chemical handler with clean water before adding any other chemical.
5. Always dissolve the PREDICADE® BROADLEAF 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, spring barley or oats, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of PREDICADE® BROADLEAF 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 PREDICADE® BROADLEAF, use of a wetting agent in the cleaning process will assist in removing oily residue that may trap PREDICADE® BROADLEAF 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, PREDICADE® BROADLEAF is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to PREDICADE® BROADLEAF 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 PREDICADE® BROADLEAF 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 of Canada Limited representative or the FMC of Canada Limited 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.

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