

PMRA Approved Label (J.D)
2019-4324
2020-02-25

PRINCIPAL DISPLAY PANEL

GROUP	2	HERBICIDE
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BARRICADE® SG

Soluble Granule

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

AGRICULTURAL

REGISTRATION NO. 29544 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENTS: 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 ATTACHED BOOKLET BEFORE USING

FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104
1-833-362-7722

PMRA Approved Label (J.D)

2019-4324

2020-02-25

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.
- THE USER ASSUMES THE RISK TO PERSONS OR PROPERTY THAT ARISES FROM THE USE OF THIS PRODUCT IN ANY WAY THAT IS INCONSISTENT WITH THE DIRECTIONS ON THE LABEL.

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 A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

STORAGE:

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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:

For recyclable containers:

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

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

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

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.

®/™ BARRICADE is a trademark of FMC Corporation or an affiliate.

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DFU Booklet

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SPRING BARLEY AND OATS

AGRICULTURAL

REGISTRATION NO. 29544 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENTS: Thifensulfuron-methyl 25%
 Tribenuron-methyl 25%

Warning: Contains the allergen milk, sulfites

POTENTIAL SKIN SENSITIZER

READ THE LABEL AND THIS ATTACHED BOOKLET BEFORE USING

FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104
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.
- THE USER ASSUMES THE RISK TO PERSONS OR PROPERTY THAT ARISES FROM THE USE OF THIS PRODUCT IN ANY WAY THAT IS INCONSISTENT WITH THE DIRECTIONS ON THE LABEL.

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 A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148

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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 30 g per hectare of BARRICADE® SG per crop year.
- 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, 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 of this product 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.

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PRODUCT DESCRIPTION:

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

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

BARRICADE® SG is to be mixed with water and a recommended adjuvant and applied as a uniform broadcast spray. Recommended adjuvants are: AGRAL* 90, AG-SURF*, 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.

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

BARRICADE® SG 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:

Minimum Interval	Crop
2 months	Canola, Flax, Lentils, Alfalfa

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Next crop year	All crops
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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 BARRICADE® SG to currently licensed varieties of wheat (spring, durum and winter), spring barley and oats. Consult FMC Corporation 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 BARRICADE® SG.

APPLICATION INFORMATION:

APPLICATION PRECAUTIONS:

- 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. Observe buffer zones specified under DIRECTIONS FOR USE.
- Apply with an adjuvant registered for use with BARRICADE® SG. Use only water as a carrier. Other carriers may accelerate breakdown of BARRICADE® SG 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 BARRICADE® SG 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, application equipment and sprayer settings.

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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:

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.

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

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the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

Buffer zones:

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

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	Crop		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

* 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.

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 or coarse classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

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WHEAT (SPRING, WINTER AND DURUM), SPRING BARLEY AND OATS

BARRICADE® SG + MCPA ESTER	
LOCATION: No restrictions.	
CROP (S): Spring wheat (including durum), winter wheat, spring barley and oats	
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	
BARRICADE® SG	30 grams/hectare
MCPA Ester 500	0.56 L/ha
Or	Or
MCPA Ester 600	0.47 L/ha
MIXING: Ensure that BARRICADE® SG 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 BARRICADE® SG alone, as well as white cockle, dandelion (spring and fall rosettes, up to 15cm in diameter), scentless chamomile and volunteer canola, including Group 2 herbicide tolerant varieties (apply when volunteer canola is in the 2-4 leaf stage).	

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WHEAT (SPRING, WINTER AND DURUM) AND SPRING BARLEY

BARRICADE® SG	
LOCATION: No restrictions	
CROP (S): Spring wheat (including durum), winter wheat 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), 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.	
APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
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: Mixing order is BARRICADE® SG, 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 ²
Common chickweed ⁴	
Cow cockle	
Flixweed	
Hemp-nettle	
Kochia ³	
Lamb's-quarters	
Narrow leaved hawk's beard	
Night flowering catchfly	
Redroot Pigweed	
Russian thistle	
Sow thistle (perennial)	
Stinkweed	
Volunteer canola ¹	
Wild Buckwheat	
Wild mustard	

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1. BARRICADE® SG alone will not control Group 2 herbicide tolerant canola varieties .
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. BARRICADE® SG 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.

BARRICADE® SG + 2,4-D ESTER	
LOCATION: No restrictions.	
CROP (S): Spring wheat (including durum), winter wheat 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	
BARRICADE® SG Herbicide	30 grams/hectare
2,4-D Ester 700LV	0.6 L/ha (or 420 g/ha acid equivalent)
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 of spray solution
MIXING: Ensure that BARRICADE® SG 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 or suppressed by BARRICADE® SG alone, as well as weeds controlled by 2,4-D Ester.	

BARRICADE®SG + PERIMETER® II HERBICIDE	
LOCATION: No restrictions.	
CROP (S): Spring wheat (including durum), winter wheat and spring barley	
TIMING: Post-emergent application from 2-leaf to initiation of stem elongation of spring wheat (including durum) and spring barley. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
PERIMETER® II Herbicide	0.155 L/ha for control of cleavers (1-4 whorls) and kochia (including Group 2 resistant biotypes) 0.21 L/ha for control of weeds listed above plus cleavers (1-6 whorls), volunteer flax, stork's bill (1-6 leaf), round-leaved mallow and

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	shepherd's purse (up to 20 cm).
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 BARRICADE [®] SG 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. Consult the PERIMETER [®] II Herbicide label for additional application instructions and use precautions.	
Weeds Controlled	
Broadleaf weeds controlled or suppressed by BARRICADE [®] SG alone, as well as volunteer flax (up to 12 cm in height), cleavers (1-6 whorl), kochia (including Group 2 resistant biotypes; seedling to 8-leaf stage), stork's bill (1-6 leaf), round-leaved mallow (1-5 leaf) and shepherd's purse (up to 20 cm).	

BARRICADE[®] SG + PERIMETER[®] II HERBICIDE + MCPA ESTER	
LOCATION: No restriction	
CROP (S): Spring wheat (including durum), winter wheat and spring barley	
TIMING: Post-emergent application from 3-leaf to initiation of stem elongation of spring wheat (including durum) and spring barley. Apply to winter wheat in the spring from the 3 tiller stage to just before the flag leaf stage.	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE [®] SG	30 grams/hectare
PERIMETER [®] II Herbicide	0.21 L/ha
MCPA Ester 500 Or MCPA Ester 600	0.56 L/ha Or 0.47 L/ha
MIXING: Ensure that BARRICADE [®] SG 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. Consult the PERIMETER [®] II Herbicide and MCPA Ester labels for additional application instructions and use precautions.	
Weeds Controlled	
Broadleaf weeds controlled or suppressed by BARRICADE [®] SG alone, plus: Dandelion (spring and fall rosettes, up to 15 cm in diameter) Cleavers (1-9 whorl) Hemp-nettle (up to 8 leaf) Kochia (including Group 2 resistant biotypes; seedling to 8-leaf stage) Round-leaved mallow (1-5 leaf) Scentless chamomile Stork's bill (1-6 leaf) Volunteer flax (up to 12 cm in height) Volunteer canola, including Group 2 herbicide tolerant varieties (apply when volunteer canola is in the 2-4 leaf stage) White cockle	

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WHEAT (SPRING, DURUM) AND SPRING BARLEY

BARRICADE®SG + PERIMETER® HERBICIDE OR PERIMETER® MEGA PRECISIONPAC® HERBICIDE	
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-leaf to initiation of stem elongation of crop.	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
PERIMETER® Herbicide or PERIMETER® MEGA PRECISIONPAC® HERBICIDE	0.3 L/ha for cleavers and kochia (including Group 2 resistant biotypes) 0.4 L/ha for control of weeds listed above plus volunteer flax and stork's bill and round-leaved mallow
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 BARRICADE® SG is dissolved before adding PERIMETER® Herbicide or PERIMETER® MEGA PRECISIONPAC® HERBICIDE. Then add PERIMETER® Herbicide or PERIMETER® MEGA PRECISIONPAC® HERBICIDE while continuing agitation, then adjuvant. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last. Consult the PERIMETER® Herbicide or PERIMETER® MEGA PRECISIONPAC® HERBICIDE label for additional application instructions and use precautions.	
Weeds Controlled	
Broadleaf weeds controlled or suppressed by BARRICADE® SG alone, as well as volunteer flax (up to 12 cm in height), kochia (including Group 2 resistant biotypes; seedling to 8-leaf stage) cleavers (1-4 whorl) (controlled by Perimeter alone) and stork's bill (1-6 leaf) and round-leaved mallow (1-5 leaf).	

BARRICADE® SG + 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	
BARRICADE® SG	30 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.	

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MIXING: Ensure that BARRICADE® SG 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 BARRICADE® SG alone, as well as wild oats, green foxtail, barnyard grass and yellow foxtail.

BARRICADE® SG + PUMA[®] 120 SUPER + 2,4-D 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: Apply this tank mix from the full 3-leaf stage to the 6-leaf + 3 tiller stage of wheat (including durum) and the full 3-leaf stage to the 5-leaf + 2 tiller stage of barley.

For green foxtail control, apply at the 1-6 leaf (up to emergence of the 3rd tiller) stage.

TANK MIX COMPONENTS AND APPLICATION RATES

BARRICADE® SG	30 grams/hectare
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PUMA [®] 120 SUPER	385 ml/hectare for green foxtail only
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Choose one of the following:

2,4-D Ester LV700

0.6 L/ha (or 420 g/ha acid equivalent)

No adjuvant required.

MIXING: Ensure that BARRICADE® SG is completely dissolved before adding Puma[®] 120 Super. Then add Puma[®] 120 Super, and, with reduced agitation, add 2,4-D Ester. 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 BARRICADE® SG plus 2,4-D Ester, and green foxtail.

BARRICADE® SG + BANVEL[®] II or BANVEL[®] Dry EG Herbicide

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: 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.

TANK MIX COMPONENTS AND APPLICATION RATES

BARRICADE® SG	30 grams/hectare
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Banvel [®] II Herbicide or	110 – 145 mL/ha or
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Banvel*Dry EG Herbicide	76 - 100 g/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 of spray solution
MIXING: Ensure that BARRICADE® SG is dissolved before adding Banvel II or Banvel Dry EG Herbicide. Refer to MIXING DIRECTIONS section for general directions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by BARRICADE® SG plus Group 2 resistant KOCHIA.	

BARRICADE® SG + 2,4-D ESTER + BANVEL* II or BANVEL* Dry EG Herbicide	
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: 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.	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	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* , CITOWETT* PLUS, Liberate Adjuvant, Ag-Surf II, HiActivate Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant or Enhance	2 litres/1000 litres of spray solution
MIXING: Ensure that BARRICADE® SG 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.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by BARRICADE® SG plus 2,4-D Ester, plus Group 2 resistant KOCHIA.	

SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY

BARRICADE® SG + AXIAL* 100EC Herbicide	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	

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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	
BARRICADE® SG	30 grams/hectare
AXIAL* 100 EC Herbicide	600 mL/hectare
ADIGOR* Adjuvant	700 mL/hectare
MIXING: Ensure that BARRICADE® SG 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. Consult the Axial* 100EC Herbicide label for application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by BARRICADE® SG 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.	

SPRING WHEAT, DURUM WHEAT AND WINTER WHEAT

BARRICADE® SG + VARRO* HERBICIDE	
LOCATION: For use in the Prairie Provinces and Interior of British Columbia	
CROP (S): Spring wheat (including durum) and winter wheat.	
TIMING: Post-emergent application from 2-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 either in the fall or spring from the 2 leaf to full tillering stage, but prior to jointing (presence of first node).	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
VARRO* Herbicide	0.5 L/ha
MIXING: Ensure that BARRICADE® SG is completely dissolved. Reduce agitation, and then add the VARRO* Herbicide. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last. Consult the tankmix partner labels for additional application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by BARRICADE® SG alone, plus weeds listed on the VARRO* Herbicide label.	

SPRING WHEAT AND DURUM WHEAT

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BARRICADE® SG + 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	
BARRICADE® SG	30 grams/hectare
HORIZON* NG Herbicide	0.930 L/Ha
No adjuvant required.	
MIXING: Ensure that BARRICADE® SG 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 BARRICADE® SG alone, green foxtail and wild oats.	
NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application.	

BARRICADE® SG + HORIZON* 240 EC Herbicide Tank Mix	
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	
BARRICADE® SG	30 grams/hectare
HORIZON* 240 EC Herbicide	0.230 L/Ha
Adjuvant: SCORE*	0.8 L/Ha
MIXING: Ensure that BARRICADE® SG is completely dissolved. Reduce agitation, and then add Horizon* 240 EC Herbicide Tank Mix. Then add Score* adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Use minimum volume of 55 L/ha. Consult the Horizon 240 EC Herbicide Tank Mix label for additional application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by BARRICADE® SG alone, green foxtail and wild oats.	
NOTES: Do not permit lactating dairy animals to graze fields within 7 days after application.	

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BARRICADE® SG + PERIMETER® II HERBICIDE + MCPA ESTER + HORIZON* 240 EC HERBICIDE	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	
CROP (S): Spring wheat (including durum).	
TIMING: Post-emergent application from 3-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	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
PERIMETER® II Herbicide	0.21 L/ha
MCPA Ester 500 Or MCPA Ester 600	0.56 L/ha Or 0.47 L/ha
HORIZON* 240 EC Herbicide	0.230 L/Ha
Adjuvant: SCORE*	0.8 L/Ha
MIXING: Ensure that BARRICADE® SG is dissolved, and then add the PERIMETER® II Herbicide while continuing agitation. Add the MCPA Ester, followed by Horizon 240 EC Herbicide. Add the Score last. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last. Consult the tankmix partner labels for additional application instructions and use precautions.	
Weeds Controlled	
Broadleaf weeds controlled or suppressed by BARRICADE® SG alone, plus: Dandelion (spring and fall rosettes, up to 15cm in diameter) Cleavers (1-9 whorl) Hemp-nettle (1-8 leaf) Kochia (including Group 2 resistant biotypes; seedling to 8-leaf stage) Round-leaved mallow.(1-5 leaf). Scentless chamomile Stork's bill (1-6 leaf) Volunteer canola, including Group 2 herbicide tolerant varieties (apply when volunteer canola is in the 2-4 leaf stage) Volunteer flax (up to 12 cm in height) White cockle, Wild oats	

BARRICADE® SG + SIMPLICITY*	
LOCATION: For use in the Prairie Provinces and Peace River Region of British Columbia only.	
CROP(S): Spring wheat and durum wheat.	
TIMING: Post-emergent application to spring wheat and durum wheat from the 3-leaf stage to the first node stage.	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
SIMPLICITY*	500 mL/hectare
Adjuvants: AGRAL· 90, AG-SURF· , CITOWETT· PLUS, LIBERATE ADJUVANT, AG-SURF II, HIACTIVATE NON-	2.5 litres/1000 litres of spray solution

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IONIC LIQUID SPREADER/ACTIVATOR, SUPER SPREADER ADJUVANT OR ENHANCE
MIXING: Ensure that BARRICADE® SG is completely dissolved. Reduce agitation, and then add SIMPLICITY*, followed by adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Consult the SIMPLICITY* label for application instructions and use precautions.
WEEDS CONTROLLED
Broadleaf weeds controlled or suppressed by BARRICADE® SG alone plus weeds listed on the SIMPLICITY* label.

BARRICADE® SG + PERIMETER® II HERBICIDE + MCPA ESTER + SIMPLICITY*	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	
CROP (S): Spring wheat (including durum).	
TIMING: Post-emergent application from 3-leaf to just before the flag leaf stage of spring wheat (including durum). Apply to actively growing wild oats up to the 4 leaf, 2 tiller stage.	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
PERIMETER® II Herbicide	0.21 L/ha
MCPA Ester 500 Or MCPA Ester 600	0.56 L/ha Or 0.47 L/ha
Simplicity*	0.500 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	2.5 litres/1000 litres of spray solution
MIXING: Ensure that BARRICADE® SG is completely dissolved. Reduce agitation, and then add the Simplicity*. Add the Perimeter® II Herbicide, followed by MCPA, then the adjuvant. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last. Consult the tankmix partner labels for additional application instructions and use precautions.	
Weeds Controlled	
Broadleaf weeds controlled or suppressed by BARRICADE® SG alone, plus: Dandelion (spring and fall rosettes, up to 15cm in diameter) Cleavers (1-9 whorl) Hemp-nettle (1-8 leaf) Kochia (including Group 2 resistant biotypes; seedling to 8-leaf stage) Round-leaved mallow (1-5 leaf). Scentless chamomile Stork's bill (1-6 leaf) Volunteer canola, including Group 2 tolerant herbicide varieties (apply when volunteer canola is in the 2-4 leaf stage) Volunteer flax (up to 12 cm in height) White cockle Wild oats	

BARRICADE® SG + TRAXOS® Herbicide	
LOCATION: For use in the Prairie Provinces and Interior of British Columbia	

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CROP (S): Spring wheat (including durum).	
TIMING: Post-emergent application from 2-leaf to prior to emergence of the 4 th tiller of spring wheat (including durum).	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
TRAXOS* Herbicide	1.2 L/Ha
MIXING: Ensure that BARRICADE® SG is dissolved, and then add TRAXOS* Herbicide. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last. Consult the tankmix partner labels for additional application instructions and use precautions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by BARRICADE® SG alone, plus weeds listed on the TRAXOS* Herbicide label.	

BARRICADE® SG + PERIMETER® II HERBICIDE + MCPA ESTER + TRAXOS* HERBICIDE	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	
CROP (S): Spring wheat (including durum).	
TIMING: Post-emergent application from 3-leaf to prior to emergence of the 4 th tiller of spring wheat (including durum). Apply to actively growing wild oats from the 1 to 6 leaf stage on main stem.	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
PERIMETER® II Herbicide	0.21 L/ha
MCPA Ester 500 Or MCPA Ester 600	0.56 L/ha Or 0.47 L/ha
Traxos* Herbicide	1.2 L/Ha
MIXING: Ensure that BARRICADE® SG is dissolved, and then add the PERIMETER® II Herbicide while continuing agitation. Add the MCPA Ester, followed by Traxos* Herbicide. Refer to MIXING DIRECTIONS section for general directions. If antifoam agent is required, add last. Consult the tankmix partner labels for additional application instructions and use precautions.	
Weeds Controlled	
Broadleaf weeds controlled or suppressed by BARRICADE® SG alone, plus: Dandelion (spring and fall rosettes, up to 15cm in diameter) Cleavers (1-9 whorl) Hemp-nettle (1-8 leaf) Kochia (including Group 2 resistant biotypes; seedling to 8-leaf stage) Round-leaved mallow (1-5 leaf) Scentless chamomile Stork's bill (1-6 leaf) Volunteer canola, including Group 2 herbicide tolerant varieties (apply when volunteer canola is in the 2-4 leaf stage) Volunteer flax (up to 12 cm in height) White cockle Wild oats	

SPRING WHEAT ONLY

BARRICADE® SG+ 2,4-D ESTER + EVEREST* 70 DF OR EVEREST* SOLUPAK 70	
LOCATION: For use in the prairie provinces and Peace River Region of British Columbia only.	
CROP (S): Spring wheat only	
TIMING: Apply to spring wheat in the 3 to 4 leaf stage, plus 2 tillers; to wild oats and green foxtail in the 1-6 leaf stage (1-4 leaves on main stem, plus 2 tillers).	
TANK MIX COMPONENTS AND APPLICATION RATES	
BARRICADE® SG	30 grams/hectare
EVEREST* 70 DF or EVEREST* SOLUPAK 70	43 grams/Ha
2,4-D Ester LV700	0.6 L/ha (or 420 g/ha acid equivalent)
Non-Ionic Surfactant	2.5 L/1000 L (0.25 % v/v)
MIXING: Ensure that BARRICADE® SG is completely dissolved. Add Everest* Solupak 70 DF or Everest* 70 DF 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 Ester and Everest* Solupak* 70 DF or Everest* 70 DF labels for additional information on rotational cropping restrictions, application instructions, use precautions and other restrictions.	
WEEDS CONTROLLED	
Broadleaf weeds controlled or suppressed by BARRICADE® SG + 2,4-D, plus wild oats and green foxtail.	
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 DF or EVEREST* SOLUPAK 70 labels for additional information on rotational crop restrictions, application instructions, use precautions and other restrictions.	

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 FMC Corporation at 1-833-362-7722 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

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 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 BARRICADE® SG. Continue to agitate for a minimum of 5 minutes to ensure that BARRICADE® SG 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 BARRICADE® SG granules from completely dissolving or dispersing. If this is not possible, pre-slurry BARRICADE® SG 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 BARRICADE® SG to the top of the sprayer tank.
3. If a chemical handler is used, make sure that all of the granules of BARRICADE® SG are completely dissolved/dispersed and injected into the main tank with agitation before adding other chemicals.

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4. Low water volumes in some chemical handlers can cause the water to become saturated with BARRICADE® SG, leaving un-dissolved granules. In that case, rinse the chemical handler with clean water before adding any other chemical.
5. Always dissolve the BARRICADE® SG 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 BARRICADE® SG 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 BARRICADE® SG, use of a wetting agent in the cleaning process will assist in removing oily residue that may trap BARRICADE® SG 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:

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For resistance management, BARRICADE® SG is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to BARRICADE® SG 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 BARRICADE® SG 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 Corporation representative or the FMC hotline at 1-833-362-7722 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:

For recyclable containers:

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

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

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If there is no container collection site in your area, 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.

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