

2015-0158  
2015-02-10

GROUP	<b>1</b>	HERBICIDE
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MANA

**Bengal WB**

EMULSIFIABLE CONCENTRATE POST-EMERGENT HERBICIDE

**FOR SALE FOR USE IN SPRING WHEAT, DURUM WHEAT, AND SPRING BARLEY  
AND CERTAIN MINOR USE CROPS IN THE PRAIRIE PROVINCES AND PEACE  
RIVER REGION OF BRITISH COLUMBIA ONLY AND IN SPRING WHEAT AND  
SPRING BARLEY IN EASTERN CANADA**

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NUMBER 30843 PEST CONTROL PRODUCTS ACT

GUARANTEE: fenoxaprop-P-ethyl 120 g/L  
Warning, contains the allergens soy and sulfites

CAUTION – EYE IRRITANT

NET CONTENTS: 4-1050 litres, Bulk  
Adama Agricultural Solutions Canada Ltd.  
302 - 179 McDermot Avenue  
Winnipeg, MB  
R3B 0S1  
855-264-6262

IN CASE OF SPILLS, POISONING OR FIRE TELEPHONE EMERGENCY RESPONSE  
NUMBER COLLECT at 1 800 535-5053(24 HOURS A DAY).

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. DO NOT** get in eyes. May irritate the skin. Avoid contact with skin. Protective eye equipment must be worn. To minimize exposure, the following precautions should be followed: Protective Clothing and Equipment: Wear coveralls over normal work clothes during all activities. Wear chemical resistant gloves and apron, and goggles or face shield during mixing/loading, cleanup and repair activities. Change contaminated clothing daily and wash before reusing. **DO NOT** handle product with bare hands. Chemical resistant gloves significantly reduce hand exposure. **ALWAYS** wear gloves for mixing/loading operations and when making sprayer and nozzle repairs and adjustments. **DO NOT USE LEATHER OR CLOTH GLOVES.** Rinse gloves with soap and water before removal, and wash hands thoroughly before eating, smoking or drinking. Clean protective equipment daily. **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

### **FIRST AID**

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

**TOXICOLOGICAL INFORMATION:** Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Medical personnel should contact Adama Agricultural Solutions Canada Ltd. 855-264-6262.

**ENVIRONMENTAL HAZARDS AND INFORMATION: CAUTION: TOXIC** to aquatic organisms, non-target terrestrial plants and some terrestrial invertebrates. This product contains a petroleum distillates which are moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment. Observe buffer zones specified under Directions for Use, Section 9: Application Instructions and Cautions. Do not apply to land where tail water will be used to irrigate crop land. Do not contaminate irrigation water. Avoid spray

drift onto susceptible plants (e.g. Tame Oats, flowers, trees or shrubs) and non-target areas. USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

### **STORAGE**

Keep away from fire, open flame and other sources of heat. CANNOT be stored below freezing. If stored for 1 year or longer, shake well before using. Store the tightly closed container, away from feeds, seeds, fertilizers, plants and foodstuffs. Do not use or store in or around the home. Keep in original container during storage.

### **DISPOSAL**

#### **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 requirements.

#### **RETURNABLE CONTAINER**

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

#### **DISPOSAL OF UNUSED, UNWANTED PRODUCT**

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

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

GROUP	1	HERBICIDE
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## **Bengal WB**

**EMULSIFIABLE CONCENTRATE POST-EMERGENT HERBICIDE  
FOR SALE FOR USE IN SPRING WHEAT, DURUM WHEAT, AND SPRING BARLEY  
AND CERTAIN MINOR USE CROPS IN THE PRAIRIE PROVINCES AND PEACE  
RIVER REGION OF BRITISH COLUMBIA ONLY AND IN SPRING WHEAT AND IN  
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## **GENERAL INFORMATION**

### **FOR SALE FOR USE IN EASTERN CANADA AND IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA ONLY.**

Bengal WB is a post-emergent herbicide that provides control of annual grassy weeds such as Wild Oats, Green Foxtail, Yellow Foxtail and Barnyard Grass in Spring Wheat, Durum Wheat and Spring Barley and certain minor use crops.

Bengal WB must be applied according to label recommendations or crop injury and a reduction in weed control will occur.

The 6.2 litre container contains enough Bengal WB to treat 8.1-16.2 hectares depending on the target grassy weed to be controlled.

The 99.3 litre pod container contains enough Bengal WB to treat 129-258 hectares depending on the target grassy weed to be controlled.

## **SAFETY AND HANDLING**

### **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN. DO NOT** get in eyes. May irritate the skin. Avoid contact with skin. Protective eye equipment must be worn. To minimize exposure, the following precautions should be followed:

### **PROTECTIVE CLOTHING AND EQUIPMENT**

Wear coveralls over normal work clothes during all activities. Wear chemical resistant gloves and apron, and goggles or face shield during mixing/loading, cleanup and repair activities.

Change contaminated clothing daily and wash before reusing.

**DO NOT** handle product with bare hands. Chemical resistant gloves significantly reduce hand exposure. **ALWAYS** wear gloves for mixing/loading operations and when making sprayer and nozzle repairs and adjustments. **DO NOT USE LEATHER OR CLOTH GLOVES.**

Rinse gloves with soap and water before removal, and wash hands thoroughly before eating, smoking or drinking.

Clean protective equipment daily.

**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.

### **FIRST AID**

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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

### **TOXICOLOGICAL INFORMATION**

Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Medical personnel should contact Adama Agricultural Solutions Canada Ltd. 855-264-6262.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

### **ENVIRONMENTAL HAZARDS AND INFORMATION**

**CAUTION:** TOXIC to aquatic organisms, non-target terrestrial plants and some terrestrial invertebrates. This product contains a petroleum distillates which are moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment. Observe buffer zones specified under Directions for Use, Section 9: Application Instructions and Cautions. Do not apply to land where tail water will be used to irrigate crop land. Do not contaminate irrigation water. Avoid spray drift onto susceptible plants (e.g. Tame Oats, flowers, trees or shrubs) and non-target areas. **USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.**

### **STORAGE**

Keep away from fire, open flame and other sources of heat. CANNOT be stored below freezing. If stored for 1 year or longer, shake well before using. Store the tightly closed container, away from feeds, seeds, fertilizers, plants and foodstuffs. Do not use or store in or around the home. Keep in original container during storage.

### **DISPOSAL**

#### **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 requirements.

**Returnable Container**

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

**Disposal of Unused, Unwanted Product**

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

**Disposal of Unused Spray Solution**

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, **NOT ON THE CROP**, away from water supplies, ditches, and irrigation canals.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.



## DIRECTIONS FOR USE

### CROPS, WEEDS, RATES, TIMING AND CAUTIONS

CROP	RECOMMENDED STAGE
Spring and Durum Wheat	1-6 leaves on main stem plus 3 tillers (Zadoks 11-16,23)
Spring Barley	1-5 leaves on main stem plus 2 tillers (Zadoks 11-15,22)

#### Cautions

Do not apply to Tame Oats as crop damage will occur.

**Durum Wheat:** Initial crop injury in the form of shortening or discoloration may be observed after application. This condition is temporary and should not affect yield. This injury is more likely to occur when Bengal WB is not tank mixed or when applied past the recommended leaf stage. Early application is important to maintain crop safety.

**Spring Barley:** Initial crop injury in the form of shortening or discoloration may be observed after application. Such injury symptoms are more frequent and often more pronounced in Spring Barley than in Durum Wheat. This injury is most likely to occur when applications are made under certain stress conditions, such as cold and moist conditions or when applications are made past the 5 leaf, 2 tiller stage. Applications of Bengal WB on Spring Barley should be avoided 2-3 days prior to or following cold temperatures (3°C or lower)

Do not apply Bengal WB to any field more often than once per year.

Annual Grassy Weeds	Recommended Stage
Wild Oats	1-6 leaf (up to emergence of 3rd tiller)
Green Foxtail (Wild Millet)	1-6 leaf (up to emergence of 3rd tiller)
Yellow Foxtail	1-6 leaf (up to emergence of 3rd tiller)
Barnyard Grass	1-6 leaf (up to emergence of 3rd tiller)

#### Rates

1. For control of Wild Oats, Green Foxtail, Yellow Foxtail and Barnyard Grass, apply Bengal WB at 770 mL/ha. At this rate, the contents of one 6.2 litre container of Bengal WB treats 8.1 hectares. The 99.3 litre pod container has enough Bengal WB to treat 129 hectares.
2. Under low Wild Oat infestations, and when applying Bengal WB alone in Spring Wheat and Durum Wheat, apply Bengal WB at 670 mL/ha. At this rate, the contents of one 6.2 litre container of Bengal WB treats 9.3 hectares, or the 99.3 litre pod container has enough Bengal WB to treat 148 hectares.
3. For Green Foxtail control only, apply Bengal WB at 385 mL/ha. At this rate, the contents of one 6.2 litre container of Bengal WB treats 16.2 hectares, or the 99.3 litre pod container has enough Bengal WB to treat 258 hectares.

#### Timing

Apply to emerged, actively growing weeds, according to the weed stages listed.

Under stressed conditions and/or heavy crop canopy, early application will result in improved grassy weed control.

If application of Bengal WB is not possible due to uneven weed germination, or differential germination of weeds and crops, consult your local weed specialist or the provincial weed control recommendations for the best alternate method of weed control.

If another pesticide has already been applied, wait 7 days before applying Bengal WB, or following application of Bengal WB, a 4 day interval is required before applying another pesticide, except for those recommended on this label.

Weeds that emerge after application will not be controlled.

**Note:** Treatment at the 3-4 leaf stage of crops and weeds usually combines maximum crop tolerance and weed susceptibility. Under stressed conditions and/or heavy crop canopy, earlier application will result in improved grassy weed control.

### **Cautions**

Application beyond the 6 leaf stage in Spring and Durum Wheat, or the 5 leaf stage in Spring Barley may result in injury.

**Application of Bengal WB must take place within the leaf stages outlined for all weeds on this label. Late application will result in reduced weed control.**

During periods of stress, plants are not actively growing. When daytime temperatures before or after application are very hot, combined with very dry conditions and low humidity, plants are under stress. Application of Bengal WB during these periods may result in reduced weed control (and/or crop injury).

Do not apply to a crop that is stressed by severe weather conditions, frost, low fertility, drought, water-saturated soil, disease or insect damage, as crop injury may result.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as clay).

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 (buffer zone) between the treated area and the edge of the water body.

### **TANK MIXES**

For control of Wild Oats, Green Foxtail, Yellow Foxtail, Barnyard Grass and broadleaf weeds, Bengal WB can be tank mixed with the following tank mix partners. Always read the use directions, environmental restrictions and use precautions on the Bengal WB label, and the label of the product(s) being applied with Bengal WB and follow the more stringent of the two.

Do not tank mix with any other chemical additives, pesticides or fertilizers unless recommended on this label.

## WEED CONTROL IN SPRING WHEAT AND DURUM WHEAT

For control of Wild Oats, Green Foxtail, Yellow Foxtail and Barnyard Grass in Spring and Durum Wheat grown in the Prairie Provinces and Peace River Region of British Columbia, mix Bengal WB at 770 mL/ha alone, or with the tank mix partners listed in the Spring and Durum Wheat Table.

For control of Wild Oats in Spring Wheat grown in eastern Canada, apply Bengal WB at 770 mL/ha alone, or in a tank mixture with Badge, Refine Extra, MCPA Amine 500, MCPA Ester 500 or Refine Extra + MCPA Ester 500.

For control of **Green Foxtail only** in Spring and Durum Wheat grown in the Prairie Provinces and Peace River Region of British Columbia, mix Bengal WB at 385 mL/ha alone, or with the tank mix partners listed in the Spring and Durum Wheat Table.

For control of **Green Foxtail only** in Spring Wheat grown in eastern Canada, apply Bengal WB at 385 mL/ha alone, or in a tank mixture with Badge, Refine Extra, MCPA Amine 500, MCPA Ester 500 or Refine Extra + MCPA Ester 500.

**Note:** Always consult Bengal WB and tank mix partner labels for proper timing, weeds controlled, precautions, cropping restrictions, etc and follow the more stringent of the two.

WEED CONTROL IN SPRING WHEAT AND DURUM WHEAT				
		Bengal WB HERBICIDE RATE		
Tank Mix Partner		Tank Mix Partner Rate	Wild Oat Green Foxtail Yellow Foxtail Barnyard Grass	Green Foxtail Only
1	<b>Attain® Herbicide Tank Mix</b> Attain A + Attain B	600 mL/ha + 1 L/ha	770 mL/ha	385 mL/ha
2	Thumper®	1 L/ha	770 mL/ha	385 mL/ha
3	Mecoprop® (150 g active per Litre)	5.5 – 7 L/ha	770 mL/ha	No
<b>Note:</b> A reduction in Wild Oat control may be observed when Bengal WB is applied in a tank mixture with Mecoprop.				

4	MCPA Ester 500	840 mL/ha	770 mL/ha	385 mL/ha
5	MCPA Amine 500	840 mL/ha	770 mL/ha	385 mL/ha
6	Badge	1.25 L/ha	770 mL/ha	385 mL/ha
7	Refine Extra <sup>®</sup>	20 g/ha	770 mL/ha	385 mL/ha
8	Refine Extra + MCPA Ester 500	20 g/ha + 840 mL/ha	770 mL/ha	385 mL/ha
<p><b>USE ONLY MCPA ESTER 500</b> in this tank mix and only at recommended rates. Failure to do so may result in reduced Wild Oat control. <b>DO NOT USE MCPA AMINE</b></p>				
9	Refine Extra + Badge	6.7 g/ha + 1.25 L	770 mL/ha	385 mL/ha
10	Refine Extra + Accord	20 g/ha + 67 g/ha	770 mL/ha	No
11	Ally <sup>®</sup>	5 or 7.5 g/ha	770 mL/ha	385 mL/ha
12	Lontrel 360	420 mL/ha	770 mL/ha	385 mL/ha
13	Lontrel 360 + MCPA Ester 500 <b>OR</b>	420 mL/ha + 840 mL/ha <b>OR</b>	770 mL/ha	No
14	Lontrel 360 + MCPA Ester 500	280 mL/ha + 840 mL – 1.12 L/ha	770 mL/ha	No
<p><b>USE ONLY MCPA ESTER 500</b> in this tank mix and only at recommended rates. Failure to do so may result in reduced Wild Oat control. <b>DO NOT USE MCPA AMINE</b></p>				
15	Curtail <sup>®</sup> M	1.5 – 2 L/ha	770 mL/ha	385 mL/ha

16	2,4-D Ester 600	700 mL/ha	770 mL/ha	385 mL/ha
17	2,4-D Ester LV 700	600 mL/ha	770 mL/ha	385 mL/ha
18	Estaprop®	1.75 L/ha	770 mL/ha	385 mL/ha
19	Dichlorprop D	1.75 L/ha	770 mL/ha	385 mL/ha
20	Turboprop 600	1.75 L/ha	770 mL/ha	385 mL/ha
21	Dyvel DS	1.1 L/ha	No	385 mL/ha
22	Dyvel	1.25 L/ha	No	385 mL/ha
23	<b>Prestige® Herbicide Tank Mix</b> Prestige A + Prestige B	800 mL/ha + 2 L/ha	770 mL/ha	385 mL/ha
24	Express DF Herbicide 75% + 2,4-D LV 700	10 g/ha + 600 mL/ha	No	385 mL/ha
25	<b>Trophy® Herbicide Tank Mix</b> Trophy A + Trophy B	0.6 L/ha + 1.12 L/ha	770 mL/ha	No
26	<b>Frontline® Herbicide Tank Mix</b> Frontline A + Frontline B	0.1 L/ha + 0.7 L/ha	No	385 mL/ha

27	<b>Spectrum® Herbicide Tank Mix</b> Spectrum A + Spectrum B	0.1 L/ha + 1.5 L/ha	No	385 mL/ha
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### WEED CONTROL IN SPRING BARLEY

For control of Wild Oats, Green Foxtail, Yellow Foxtail, Barnyard Grass, and broadleaf weeds in Spring Barley grown in the Prairie Provinces and Peace River Region of British Columbia, mix Bengal WB at 770 mL/ha with the appropriate tank mix partner indicated in the Spring Barley Table or mix with one of the following crop oil concentrates: Adapt™ Oil Concentrate or Canplus 411, at 1% v/v if applying Bengal WB without a broadleaf tank mix partner.

For control of Wild Oats, Green Foxtail, Yellow Foxtail and Barnyard Grass in Spring Barley grown in eastern Canada, apply Bengal WB at 770 mL/ha alone, or in a tank mixture with Buctril M, Refine Extra, MCPA Amine 500, MCPA Ester 500, or Refine Extra + MCPA Ester 500.

For control of **Green Foxtail only** in Spring Barley grown in the Prairie Provinces and Peace River Region of British Columbia, mix Bengal WB at 385 mL/ha with the tank mix partner indicated in the Spring Barley Table or mix with one of the following crop oil concentrates: Adapt™ Oil Concentrate or Canplus 411, at 1% v/v if applying Bengal WB without a broadleaf tank mix partner.

For control of **Green Foxtail only** in Spring Barley grown in eastern Canada, apply Bengal WB at 385 mL/ha alone, or in a tank mixture with Buctril M, Refine Extra, MCPA Amine 500, MCPA Ester 500, or Refine Extra + MCPA Ester 500

**Note:** Always consult the Bengal WB and the tank mix partner labels for proper timing, weeds controlled, precautions, cropping restrictions, etc. and follow the more stringent of the two.

WEED CONTROL IN SPRING BARLEY				
		Bengal WB HERBICIDE RATE		
	Tank Mix Partner	Tank Mix Partner Rate	Wild Oat Green Foxtail Yellow Foxtail Barnyard Grass	Green Foxtail Only
1	Thrasher	1.25 L/ha	770 mL/ha	385 mL/ha
2	MCPA Ester 500	840 mL/ha	770 mL/ha	385 mL/ha

3	MCPA Amine 500	840 mL/ha	770 mL/ha	385 mL/ha
4	2,4-D Ester 600	700 mL/ha	770 mL/ha	385 mL/ha
5	2,4-D Ester LV 700	600 mL/ha	770 mL/ha	385 mL/ha
6	Badge	1.25 L/ha	770 mL/ha	385 mL/ha
7	Refine Extra <sup>®</sup>	20 g/ha	770 mL/ha	385 mL/ha
8	Refine Extra + MCPA Ester 500	20 g/ha + 840 mL/ha	770 mL/ha	385 mL/ha
<b>USE ONLY MCPA ESTER 500</b> in this tank mix and only at recommended rates. Failure to do so may result in reduced Wild Oat control. <b>DO NOT USE MCPA AMINE</b>				
9	Refine Extra + Badge	6.7 g/ha + 1.25 L	770 mL/ha	385 mL/ha
10	Refine Extra + Accord	20 g/ha + 67 g/ha	770 mL/ha	No
Use on Spring Barley grown for feed purposes only				
11	Curtail <sup>®</sup> M	1.5 – 2 L/ha	770 mL/ha	385 mL/ha
12	Estaprop <sup>®</sup>	1.75 L/ha	770 mL/ha	385 mL/ha
13	Dichlorprop	1.75 L/ha	770 mL/ha	385 mL/ha
14	Turboprop 600	1.75 L/ha	770 mL/ha	385 mL/ha
15	Dyvel	1.25 L/ha	No	385 mL/ha
16	Ally	5 or 7.5 g/ha	770 mL/ha	385 mL/ha

17	<b>Prestige® Herbicide Tank Mix</b> Prestige A + Prestige B	800 mL/ha + 2 L/ha	770 mL/ha	385 mL/ha
18	Express DF Herbicide 75% + 2,4-D LV 700	10 g/ha + 600 mL/ha	No	385 mL/ha
19	<b>Trophy® Herbicide Tank Mix</b> Trophy A + Trophy B	0.6 L/ha + 1.12 L/ha	770 mL/ha	No
20	<b>Frontline® Herbicide Tank Mix</b> Frontline A + Frontline B	0.1 L/ha + 0.7 L/ha	No	385 mL/ha
21	<b>Spectrum® Herbicide Tank Mix</b> Spectrum A + Spectrum B	0.1 L/ha + 1.5 L/ha	No	385 mL/ha



## Minor Uses

<p><b>NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS (BELOW):</b> The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Adama Agricultural Solutions Canada Ltd. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Adama Agricultural Solutions Canada Ltd. itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Adama Agricultural Solutions Canada Ltd. harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.</p>			
Crops	Weeds controlled	Bengal WB Rate	Comments
Perennial Ryegrass Grown for Seed	Wild oats, green foxtail, yellow foxtail, barnyard grass	770 mL/ha	<p>Apply Bengal WB when perennial ryegrass is at the 2-4 leaf stage, and when wild oats, green foxtail, yellow foxtail and barnyard grass are at the 1-6 leaf stage (up to emergence of 3<sup>rd</sup> tiller).</p> <ul style="list-style-type: none"> <li>• Apply using 55-110 litres of water per hectare</li> <li>• Do not apply Bengal WB to any field more often than once per year.</li> <li>• Do not graze the treated Perennial Ryegrass or cut for straw within 65 days of Bengal WB application.</li> </ul> <p>• CAUTION: Initial crop injury may be observed after application, but this is temporary and should not affect yield. This injury is most likely to occur when applications are made under stress conditions or when applications are made past the recommended leaf stage. Severe crop injury will occur as a result of spray overlap. AVOID SPRAYER OVERLAP.</p> <ul style="list-style-type: none"> <li>• Refer to pages 5 and 13 for additional use information and cautions.</li> </ul>
	Green foxtail	385 mL/ha	

### APPLICATION INSTRUCTIONS AND CAUTIONS

**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 the site of application. **DO NOT** apply with spray droplets smaller than the

American Society of Agricultural Engineers (ASAE) medium 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 and spot treatment.

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, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:		
			Freshwater Habitat of Depths:		Terrestrial habitat
			Less than 1 m	Greater than 1 m	
Field sprayer	Spring and durum wheat, spring barley, perennial rye grass		1	0	1
Aerial	Spring and durum wheat, spring barley, perennial rye grass	Fixed or rotary wing	1	0	30

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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.

**GROUND APPLICATION**

Application of Bengal WB should be made using a minimum of 55-110 litres of water per hectare, at a pressure of 275 kPa, or 310 kPa if using check valves, and at a ground speed of 6-8 kph.

When tank mixing Bengal WB with a tank mix partner, ensure you read the tank mix partner label for minimum water recommendations.

The use of 80° or 110° flat fan nozzles is recommended for optimum spray coverage. Do not use flood jet nozzles, controlled droplet application equipment or Sprafoil<sup>®</sup> equipment.

Application of the spray at a 45° angle forward and higher water volumes will result in better spray coverage and penetration of the crop canopy.

Uniform, thorough coverage is important to obtain consistent weed control. Higher water volumes should be used under dense crop and weed canopies to ensure thorough coverage of the target weeds.

Avoid overlapping; shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over-application.

Do not apply if rain is expected within 1 hour after spraying. If tank mixing, consult the tank mix partner label and respect the most restrictive interval.

### **AIR APPLICATION**

Apply Bengal WB alone or in tank mixes (ONLY with the recommended tank mix partners that are registered for aerial use) in no less than 35 litres of water per hectare at a pressure no less than 300 kPa.

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.

### **Aerial Use Precautions**

Read and understand the entire label before opening this product. If you have questions, call Adama Agricultural Solutions Canada Ltd. 855-264-6262 or obtain technical advice from the distributor or your provincial agricultural representative.

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

Do not apply to terrain where there is a potential for surface run-off to enter aquatic systems.

Do not apply if rain is expected within 1 hour after spraying. If tank mixing, consult the tank mix partner label and respect the most restrictive interval.

### **Aerial Application Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the 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.

### **MIXING INSTRUCTIONS**

1. Ensure that the spray tank, lines and filter are thoroughly clean.
2. Fill the tank half-full with clean water and start agitation or bypass system. If a tank mix partner is to be used, refer to the sections on tank mix combinations with Bengal WB. Add the tank mix partner FIRST prior to adding Bengal WB. Slowly add the correct amount of Bengal WB to the spray tank. Agitate thoroughly.
3. Triple rinse the emptied containers and add rinsings into the spray tank.
4. Add the remaining amount of water while agitation continues. Spray out immediately. Spray mixture should not be left in tank overnight.
5. When mixing second and subsequent tank-full, ensure that the tank is half-full of clean water prior to adding herbicide, and follow steps 2-6.
6. Thoroughly clean nozzles, screens and the spray tank by flushing with a water/detergent mixture after using Bengal WB or before using any other pesticide.
7. Do not tank mix with any other chemical additives, pesticides, surfactants or fertilizers unless recommended on this label.

### **SPRAYER CLEANUP**

#### **Clean Up Before You Spray**

Prior to using Bengal WB ensure that the spray tank, lines and filter are thoroughly clean.

All traces of Bengal WB must be removed before equipment can be used on Rye, Flax, or broadleaf crops.

#### **Clean Up After You Spray**

When using tank mixes, consult the tank mix partner label for additional cleanup instructions.

Drain or flush equipment and containers away from wells, water sources, and desirable vegetation. To avoid subsequent injury to other crops, immediately after spraying and before spraying other crops, thoroughly remove all traces of Bengal WB from mixing and spray equipment by flushing with a water/detergent mixture.

### **HERBICIDE RESISTANCE MANAGEMENT**

For resistance management, Bengal WB is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to Bengal WB and other Group 1 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 Bengal WB or other Group 1 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact your local MANA representative, or call MAKHTESHIM-AGAN OF NORTH AMERICA INC. 1-919 256-9305.

#### **LIVESTOCK FEEDING AND PRE-HARVEST INTERVALS**

- Do not graze the treated crops or cut for hay within 25 days of Bengal WB application, or harvest for grain within 65 days of Bengal WB application.

#### **NOTICES**

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