

22-JUN-2001

Aventis  
ONE PASS  
HERBICIDE

THIS PRODUCT MUST BE USED IN COMBINATION  
WITH BUCTRIL® M HERBICIDE OF THE  
PUMA<sup>120</sup> ONE PASS HERBICIDE TANK MIX  
FOR USE IN SPRING WHEAT AND DURUM WHEAT  
PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA

COMMERCIAL

CAUTION  
POISON

TRIPLE  
RINSE

DANGER: EYE AND SKIN IRRITANT  
EQUIPMENT MAY BE REQUIRED

REGISTRATION NO.: 26219  
PEST CONTROL PRODUCTS ACT

GUARANTEE: fenoxaprop-p-ethyl 120 g/L

NET CONTENTS:  
6.2 LITRES

READ THE LABEL AND  
BOOKLET BEFORE USING

~~Aventis CropScience Canada Co.~~  
~~295 Henderson Drive~~  
~~Regina, SK S4N 6C2~~  
~~Telephone: 1 888 AVENTIS~~  
~~(1 888 283 6847)~~

Notification Change

Bayer Cropscience Inc. □  
Suite 100 □  
3131-114th Ave. S.E. □  
Calgary, AB T2Z 3X2

**PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN. Causes eye damage. Causes eye and skin irritation. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist or vapours. 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 and exposed skin before eating, smoking or drinking. Clean protective equipment daily. Do not re-enter treated areas within 12 hours of application. **FIRST AID for ONE PASS Herbicide:** Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. **Ingestion:** If swallowed DO NOT induce vomiting. Immediately contact a poison control centre or take patient to hospital with the Directions for Use booklet or this labelled container. **Eye Contact:** If in contact with eyes, flush with plenty of water for 15 minutes. If irritation develops, get medical attention. **Skin Contact:** In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water. If irritation develops, get medical attention. **Inhalation:** If inhaled transfer individual to fresh air. If breathing ceases, start artificial respiration. **TOXICOLOGICAL INFORMATION:** Medical personnel should contact Aventis' medical information services toll-free 1-800-334-7577.

PUMA<sup>120</sup> ONE PASS Herbicide contains PETROLEUM DISTILLATES. **CAUTION:** This product is toxic to fish, daphnids, aquatic plants, terrestrial plants and some terrestrial invertebrates. Overspray or drift to aquatic bodies of water, such as ponds, lakes, rivers, streams, irrigation water and terrestrial wildlife habitats such as wetlands, wood lots, shelterbelts, sloughs or dry slough borders, vegetated areas at the edges of bodies of water and other terrestrial wildlife habitats should be avoided. Leave a buffer zone of 10 metres between the last spray swath and the edge of any of these habitats. Do not apply to land where tail water will be used to irrigate cropland. Do not contaminate irrigation water. Avoid spray drift to susceptible plants 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 store 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 Disposal:** 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. **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 control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

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Notification Change

~~Aventis~~ Bayer Cropscience Inc.

PUMA<sup>®120</sup> ONE PASS  
HERBICIDE TANK MIX

FOR USE IN SPRING WHEAT AND DURUM WHEAT  
PRAIRIE PROVINCES AND PEACE RIVER REGION  
OF BRITISH COLUMBIA

COMMERCIAL

WARNING	TRIPLE
POISON	RINSE

DANGER: EYE AND SKIN IRRITANT  
EQUIPMENT MAY BE REQUIRED

This herbicide tank mix contains:  
ONE PASS HERBICIDE REGISTRATION NUMBER 26219  
PEST CONTROL PRODUCTS ACT

**GUARANTEE:** fenoxaprop-p-ethyl 120 g/L

**BUCTRIL® M HERBICIDE REGISTRATION NUMBER 26181**  
PEST CONTROL PRODUCTS ACT

**GUARANTEE:** bromoxynil (present as esters) 280 g/L  
MCPA (present as ester) 280 g/L

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**Calgary, AB T2Z 3X2**

**READ THE LABEL AND BOOKLET BEFORE USING**

**NET CONTENTS:**  
**ONE PASS Herbicide - 6.2 LITRES**  
**Buctril M Herbicide - 8 LITRES**

**PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix**

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**For More Information, Contact:**

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### GENERAL INFORMATION

#### Section 1: The Product

FOR USE IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF  
BRITISH COLUMBIA

- S PUMA<sup>120</sup> ONE PASS is a post-emergent herbicide tank mix that provides control of annual grassy weeds such as Wild Oats, Green Foxtail (Wild Millet), Barnyard Grass and certain broadleaf weeds in Spring Wheat and Durum Wheat.
- S PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix must be applied according to label recommendations or crop injury and a reduction in weed control will occur.
- S **The contents of one 6.2 litre container of ONE PASS Herbicide, mixed with one 8 litre container of Buctril M Herbicide treats 8 hectares.**
- S PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix may NOT be used on any crop for which it is NOT REGISTERED.

### SAFETY AND HANDLING

#### Section 2: Precautions, Protective Clothing and Equipment

##### PRECAUTIONS:

**KEEP OUT OF REACH OF CHILDREN.** Causes eye damage. Causes eye and skin irritation. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist or vapours. Protective eye equipment must be worn. To minimize exposure, the following precautions should be followed:

##### Protective Clothing and Equipment:

- S 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.
- S Change contaminated clothing daily and wash before reusing.
  - S 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.
  - S Rinse gloves with soap and water before removal, and wash hands and exposed skin before eating, smoking or drinking.
  - S Clean protective equipment daily.
  - S Do not re-enter treated areas within 12 hours of application.

### **Section 3: First Aid and Toxicological Information**

#### **FIRST AID:** (for tank mix solution)

Take containers, labels or product names and Pest Control Product Registration Numbers with you when seeking medical attention.

**Ingestion:** If swallowed **DO NOT** induce vomiting. Immediately contact a poison control centre or take patient to hospital with these Directions for Use (or the labelled container).

**Eye Contact:** If in contact with eyes, flush with plenty of water for 15 minutes. If irritation develops, get medical attention.

**Skin Contact:** In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water. If irritation develops, get medical attention.

**Inhalation:** If inhaled transfer individual to fresh air. If breathing ceases, start artificial respiration.

#### **TOXICOLOGICAL INFORMATION:** (for tank mix solution)

Medical personnel should contact Aventis' medical information services toll-free 1-800-334-7577.

PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix contains PETROLEUM DISTILLATES.

### **Section 4: Environmental Precautions and Information**

- S **CAUTION:** This product is toxic to fish, daphnids, aquatic plants, terrestrial plants and some terrestrial invertebrates. Overspray or drift to aquatic bodies of water, such as ponds, lakes, rivers, streams, irrigation

water and terrestrial wildlife habitats such as wetlands, wood lots, shelterbelts, sloughs or dry slough borders, vegetated areas at the edges of bodies of water and other terrestrial wildlife habitats should be avoided. Leave a buffer zone of 10 metres between the last spray swath and the edge of any of these habitats.

- S Do not apply to land where tail water will be used to irrigate cropland. Do not contaminate irrigation water.
- S Avoid spray drift to susceptible plants and non-target areas.
- S USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

### **Section 5: Storage**

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

### **Section 6: Disposal**

#### **Recyclable Container Disposal:**

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.

#### **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 field just sprayed, NOT ON THE CROP, away from water supplies, ditches, irrigation canals, and desirable vegetation.

**DIRECTIONS FOR USE****Section 7: Crops, Weeds, Rates, Timing, and Cautions**

<b>Crop</b>	<b>Recommended Stage</b>
<b>Spring and Durum Wheat</b>	1-6 leaves on main stem plus 3 tillers (Zadoks 11 to 16,23)

**Cautions:**

3. Do not apply to Tame Oats as crop damage will occur.
4. Initial crop injury, such as discoloration, may be observed after application. In Durum Wheat, this may also be accompanied by a shortening of crop height. This condition is temporary and should not affect yield. This injury is more likely to occur when PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix is applied past the 6-leaf stage. Early application is important to maintain crop safety.
5. Do not apply PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix to any field more often than once per year.

**WEEDS CONTROLLED**

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

<b>Broadleaf Weeds</b>	<b>Recommended Stage</b>
American Nightshade	
Ball Mustard	



Bluebur	
Cocklebur	
Cow Cockle <sup>1</sup>	
Flixweed	
Green Smartweed	
Kochia <sup>2</sup>	Seedling up to 4 leaf stage
Lady's-thumb	
Night Flowering Catchfly	
Pale Smartweed	
Redroot Pigweed	
Russian Thistle <sup>2</sup>	
Scentless Chamomile <sup>3</sup>	
Shepherd's-purse	
Volunteer Canola	
Volunteer Sunflower	
Wild Tomato	Seedling up to 6 leaf stage
Common Buckwheat	
Common Groundsel	
Common Ragweed	
Lamb's-quarters	
Stinkweed	Seedling up to 8 Leaf Stage
Tartary Buckwheat	
Wild Buckwheat	
Wild Mustard	
Wormseed Mustard	
Canada Thistle	
Perennial Sow Thistle	Top growth checked

**Notes:**

- <sup>1</sup> In normal conditions Cow Cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.
- <sup>2</sup> Spray before plants are 5 cm high.
- <sup>3</sup> Spring annuals only.

**Rates:**

For control of Wild Oats, Green Foxtail, Barnyard Grass and select broadleaf weeds, apply the contents of ONE PASS Herbicide at 770 mL/ha and Buctril M Herbicide at 1 L/ha.

**Timing:**

- S** If another pesticide has been applied, wait 7 days before applying PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix, or following application, a 4 day interval is required before applying another pesticide, except for those recommended on this label.
- S** Apply to emerged, actively growing weeds, according to the weed stages listed.
- S** Under stressed conditions and/or heavy crop canopy, earlier application will result in improved grassy weed control.
- S** If application of PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix 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.
- S** Weeds that emerge after application will not be controlled.
- S** **Note:** Treatment at the 3-4 leaf stage of crops and weeds usually combines maximum crop tolerance and weed susceptibility.

**Cautions:**

- S** Application beyond the 6 leaf stage in Spring and Durum Wheat may result in injury.
- S** Application of PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix must take place within the leaf stages outlined for all weeds on this label. Late application will result in reduced weed control.
- S** 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 PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix during these periods may result in reduced weed control (and/or

- crop injury).
- S 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.
  - S Do not tank mix with any other chemical additives, pesticides or fertilizers unless recommended on this label.

## **Section 8: Application Instructions, Cautions and Rainfast Period**

### **Application Instructions:**

#### **GROUND APPLICATION ONLY. DO NOT APPLY BY AIR**

- S All the components in the PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix package must be applied together according to label recommendations or a reduction in weed control and/or crop tolerance will occur.
- S Application of PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix in Spring Wheat and Durum Wheat 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.
- S The use of 80E or 110E flat fan nozzles is recommended for optimum spray coverage.
- S Do not use flood jet nozzles, controlled droplet application equipment or Sprafoil® equipment.
- S Application of the spray at a 45E angle forward and higher water volumes will result in better spray coverage and penetration of the crop canopy.
- S 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.
- S Avoid overlapping; shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over-application.

### **Application Cautions:**

- S Do not apply to terrain where there is a potential for surface run-off to enter aquatic systems.
- S Do not apply when environmental conditions such as wind speed, temperature, relative humidity, etc., are favourable for drift to occur.

**Rainfast Period:**

- S Do not apply if rain is expected within 1 hour after spraying.

**Section 9: 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.
3. Slowly add the contents of Buctril M Herbicide component to the spray tank. Agitate thoroughly.
4. Slowly add the contents of ONE PASS Herbicide component. Agitate thoroughly.
5. Triple rinse the emptied containers into the spray tank.
6. Add the remaining amount of water while agitation continues. Spray out immediately. Spray mixture should not be left in tank overnight.
7. When mixing second and subsequent tankfuls, ensure that the tank is half full of clean water prior to adding herbicide, and follow steps 2-6.
8. Thoroughly clean nozzles, screens and the spray tank by flushing with a water/detergent mixture after using PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix or before using any other pesticide.
9. Do not tank mix with any other chemical additives, pesticides, surfactants or fertilizers unless recommended on this label.

**Section 10: Sprayer Cleanup****Clean Up Before You Spray:**

- S Prior to using PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix ensure that the spray tank, lines and filter are thoroughly clean.
- S All traces of PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix must be removed before equipment can be used on Rye, Flax, or broadleaf crops.

**Clean Up After You Spray**

- S Drain or flush equipment and containers away from wells, water sources, and desirable vegetation.
- S To avoid subsequent injury to other crops, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix from the mixing and spray equipment by flushing

with a water/detergent mixture.

### **Section 11: Herbicide Resistance Management**

- S** Certain naturally occurring biotypes of Wild Oats, Green Foxtail and broadleaf weeds have been identified in western Canada that are resistant to PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix and related products (those with the same mode of action). Selection of resistant biotypes, through repeated use of these herbicides in the same field, may result in control failures.
- S** To help prevent a build-up of herbicide resistant weed populations, PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix should be rotated with herbicides that have a different mode of action, or choose alternate cultural practices that are effective in controlling these weeds, i.e., summerfallow, chemfallow, preseeding burnoff, crop rotation.
- S** If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present.
- S** If resistance is suspected, contact your local AgrEvo representative for assistance, or call Aventis CropScience Canada Co. toll-free 1-800-667-5959.
- S** If resistance is identified, additional treatment with PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix or related herbicides will be ineffective, and is not recommended.

### **Section 12: Livestock Feeding and Pre-Harvest Periods**

- S** Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.
- S** Do not apply PUMA<sup>120</sup> ONE PASS Herbicide Tank Mix within 65 days of harvest.

### **Section 13: Notices**

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product, and accepts the product on that condition.

Notification Change

FOR MORE INFORMATION CONTACT:

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