

08-MAY-2002

((LABEL))

Notification Change

Bayer Cropscience Inc.

~~Aventis~~

ONE PASS

POST-EMERGENT HERBICIDE

**THIS PRODUCT MUST BE USED IN
COMBINATION WITH COMPONENT BUCTRIL® M HERBICIDE OF
THE PUMA ONE PASS
HERBICIDE TANK MIX**

**FOR SALE FOR USE ON SPRING WHEAT AND DURUM WHEAT
IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION
OF BRITISH COLUMBIA ONLY**

**NET CONTENTS:
8.1 LITRES**

GUARANTEE:

fenoxaprop-p-ethyl 92 g/L

**REGISTRATION NUMBER: 25687
PEST CONTROL PRODUCTS ACT**

READ THE LABEL AND BOOKLET BEFORE USING

COMMERCIAL

CAUTION POISON

TRIPLE RINSE

**DANGER: EYE AND SKIN IRRITANT
EQUIPMENT MAY BE REQUIRED**

Notification Change

~~Aventis CropSciences Canada Co.~~

~~295 Henderson Drive~~

~~Regina, SK S4N 6C2~~

~~Telephone: 1-888-AVENTIS~~

~~(1-888-283-6847)~~

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. 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 limits in the U.S., contact 1-866-375-4648 or www.cropro.org/.

FIRST AID : Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. (For Tank Mix Solution)

Ingestion: If swallowed do **NOT** induce vomiting. Take patient to hospital with these Directions for Use (or the labelled container) , or contact a poison control centre. **Skin Contact:** In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water. **Eye Contact:** If splashed in eyes, flush with plenty of water for 15 minutes. If irritation develops, get medical attention, or contact a poison control centre. **Inhalation:** If inhaled, transfer individual from site of exposure to fresh air. If breathing has ceased, start artificial respiration.

TOXICOLOGICAL INFORMATION: Medical personnel should contact Aventi's medical information services toll-free 1-800-334-7577. PUMA ONE PASS Herbicide Tank Mix contains **PETROLEUM DISTILLATES.** Environmental Precautions:

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, river, 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 (e.g. Tame Oats, flowers, trees or shrubs) and non-target areas. **USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.** This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic system during application. Do not contaminate these system through direct application, disposal of waste or cleaning equipment.

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. **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.

~~Aventis~~, Buctril and PUMA are registered trademarks of ~~the Aventis Group~~

((BOOKLET))

Notification Change

Bayer Cropscience Inc.
Aventis

**PUMA® ONE PASS
POST-EMERGENT HERBICIDE TANK MIX**

**FOR SALE FOR USE IN SPRING WHEAT AND DURUM WHEAT
IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF
BRITISH COLUMBIA ONLY**

COMMERCIAL

WARNING POISON

TRIPLE RINSE

DANGER: EYE AND SKIN IRRITANT

EQUIPMENT MAY BE REQUIRED

This herbicide tank mix contains:

ONE PASS Herbicide

REGISTRATION NO.: 25687

PEST CONTROL PRODUCTS ACT

GUARANTEE: fenoxaprop-p-ethyl 92 g/L

BUCTRIL® M Herbicide

REGISTRATION NO.: 25688

PEST CONTROL PRODUCTS ACT

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

MCPA (present as ester) 280 G/L

NET CONTENTS:

**ONE PASS HERBICIDE – 8.1 LITRES
BUCTRIL M HERBICIDE – 8 LITRES**

Notification Change

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

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

READ THE LABEL AND BOOKLET BEFORE USING

PUMA ONE PASS Herbicide Tank Mix

Table of Contents:

GENERAL INFORMATION The Product

Section Number:

1

SAFETY AND HANDLING

Precautions, Protective
Clothing and Equipment

2

First Aid and

Toxicological Information

3

Environmental Precautions and
Information

4

Storage

5

Disposal

6

DIRECTIONS FOR USE

Crops, Weeds, Rates, Timing,
and Cautions

7

Application Instructions,

Cautions and Rainfast Period

8

Mixing Instructions

9

Sprayer Cleanup

10

Herbicide Resistance Management

11

Livestock Feeding and

Pre-Harvest Intervals

12

Notices

13

For More Information, Contact:

Notification Change

~~Aventis Crop Sciences Canada Co.~~

~~295 Henderson Drive~~

~~Regina, SK S4N 6C2~~

~~Telephone: 1-888-AVENTIS~~

~~(1-888-283-6847)~~

Bayer CropScience Inc. □

Suite 100 □

3131-114th Ave. S.E. □

Calgary, AB T2Z 3X2

GENERAL INFORMATION

Section 1: The Product

The Product

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

- PUMA 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.
- PUMA ONE PASS HERBICIDE TANK MIX MUST BE APPLIED ACCORDING TO LABEL RECOMMENDATIONS OR CROP INJURY AND A REDUCTION IN WEED CONTROL WILL OCCUR.
- **The contents of one 8.1 litre container of ONE PASS Herbicide and one 8 litre container of BUCTRIL M Herbicide treats 8.1 hectares (20 acres).**

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:

- 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 before eating, smoking or drinking.
- Clean protective equipment daily.
- Do not re-enter treated areas within 12 hours of application.
- 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 limits in the U.S., contact 1-866-375-4648 or www.cropro.org/.

Section 3: First Aid and Toxicological Information

FIRST AID (for Tank Mix Solution): 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. Take patient to hospital with these Directions for Use (or the labelled container), or contact a poison control centre.

Skin Contact: In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

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

Inhalation: If inhaled, transfer individual from site of exposure to fresh air. If breathing has ceased, start artificial respiration.

TOXICOLOGICAL INFORMATION:

- Medical personnel should contact Aventis' medical information services toll-free 1-800-334-7577.
- PUMA ONE PASS Herbicide Tank Mix contains **PETROLEUM DISTILLATES**.

Section 4: Environmental Precautions and Information

- **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, river, 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 (e.g. Tame Oats, flowers, trees or shrubs) and non-target areas.
- **USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.**
- This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic system during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

Section 5: 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.

Section 6: Disposal

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.

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 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.

DIRECTIONS FOR USE

Section 7: Crops, Weeds, Rates, Timing, Cautions

Crops and Weeds:

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

Cautions:

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

WEEDS CONTROLLED**Annual Grassy Weeds****Recommended Stage**

Barnyard Grass	1-6 leaf (up to emergence of 3 rd tiller)
Green Foxtail (Wild Millet)	1-6 leaf (up to emergence of 3 rd tiller)
Wild Oats	1-6 leaf (up to emergence of 3 rd tiller)

Broadleaf Weeds**Recommended Stage**

American Nightshade	
Ball Mustard	
Bluebur	
Cocklebur	
Cow Cockle ¹	
Flixweed	
Green Smartweed	
Kochia ²	Seedling up to 4 leaf stage
Lady's-thumb	
Night Flowering Catchfly	
Pale Smartweed	
Redroot Pigweed	
Russian Thistle ²	
Scentless Chamomile ³	
Shepherd's-purse	
Volunteer Canola	
Volunteer Sunflower	
Wild Tomato	Seedling up to 6 leaf stage
Common Buckwheat	
Common Groundsel	

earlier application will result in improved grassy weed control.

Cautions:

- Application beyond the 6 leaf stage in Spring and Durum Wheat may result in injury.
- Application of PUMA 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.
- 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 ONE PASS Herbicide Tank Mix 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.
- Do not tank mix with any other chemical additives, pesticides or fertilizers unless recommended on this label.

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

Application Instructions:

GROUND APPLICATION ONLY. DO NOT APPLY BY AIR.

- Application of PUMA ONE PASS Herbicide Tank Mix in Spring and Durum Wheat should be made in a minimum of 55-110 litres of water per hectare at a pressure of 275 kPa, or 310 kPa if using check valves, with a ground speed of 6-8 kph.
- 80° degree or 110° flat fan nozzles are recommended for optimal spray coverage.
- Application of the spray at a forward angle of 45° and the higher water volumes will result in better penetration of the canopy, and better coverage.
- Uniform, thorough coverage is important to obtain good control. Higher water volumes should be used under dense crop and weed canopies to ensure thorough coverage of the target weeds.

Application Cautions:

- Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over-application.

- DO NOT APPLY PUMA ONE PASS HERBICIDE TANK MIX BY AIRCRAFT.
- Do not use flood jet nozzles, controlled droplet application equipment or Sprafoil® equipment.
- Do not apply to terrain where there is a potential for surface run-off to enter aquatic systems.
- Do not apply when environmental conditions such as wind speed, temperature, relative humidity, etc., are favourable for drift to occur.

Rainfast Period:

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. Add the contents of ONE PASS Herbicide component.
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 ONE PASS Herbicide Tank Mix or before using any other pesticide.
9. Do not tank mix with any other chemical additives, pesticides, or fertilizers unless recommended on this label.

Section 10: Sprayer Cleanup

Clean Up Before You Spray:

- Prior to using PUMA ONE PASS Herbicide Tank Mix ensure that the spray tank, lines and filter are thoroughly clean.

Clean Up After You Spray

- 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 prior to spraying other crops, thoroughly remove all traces of PUMA ONE PASS Herbicide Tank Mix from the mixing and spray equipment by flushing with a water/detergent mixture.
- All traces of PUMA ONE PASS Herbicide Tank Mix must be removed before equipment can be used on Rye, Flax, or broadleaf crops.

Section 11: Herbicide Resistance Management

- Certain naturally occurring biotypes of Wild Oats, Green Foxtail and broadleaf weeds have been identified in western Canada, that are resistant to PUMA 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.
- To help prevent a build-up of herbicide-resistant weed populations, PUMA ONE PASS Herbicide Tank Mix should be rotated with herbicides that have a different mode of action, or alternate cultural practices that are effective in controlling these weeds, i.e. summerfallow, chemfallow, preseeding burnoff, crop rotation, etc.
- If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present.
- If resistance is suspected, contact your local Aventis representative for assistance, or call Aventis CropScience Canada Co. toll-free 1-888-AVENTIS (1-888-283-6847).
- If resistance is identified, additional treatment with PUMA ONE PASS Herbicide Tank Mix or related herbicides will be ineffective, and is not recommended.

Section 12: Livestock Feeding and Pre-Harvest Periods

- Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.
- Do not apply PUMA 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.

FOR MORE INFORMATION CONTACT:

Notification Change

~~Aventis CropScience Canada Co.
295 Henderson Drive
Regina, SK S4N 6C2
Telephone: 1 888 AVENTIS
(1 888 283 6748)~~

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

~~Aventis~~, Buctril and PUMA are registered trademarks of ~~the Aventis Group~~.

Sprafoil is a registered trademark of D&W Industries.

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

+))