

2000/2002

Notification Change

((LABEL))

Bayer Cropscience Inc.

~~RHÔNE-POULENC~~

BUCTRIL® M

CONTAINS BROMOXYNIL and MCPA

HERBICIDE

THIS PRODUCT MUST BE USED IN
COMBINATION WITH ONE PASS HERBICIDE OF
THE PUMA® ONE PASS
HERBICIDE TANK-MIX

Notification Change

~~RHÔNE-POULENC~~

~~CANADA INC.~~

~~2000 Argentia Road, Plaza 3
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(905) 821-4450~~

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

In case of spills, poisoning or fire,
telephone emergency response
number 1-800-334-7577
(24 hours a day)

for use in
SPRING WHEAT AND
DURUM WHEAT

PRAIRIE PROVINCES
AND PEACE RIVER REGION
OF BRITISH COLUMBIA

8 LITRES
TREATS 8 HECTARES

AGRICULTURAL

GUARANTEE:
Bromoxynil
(present as esters) 280 g/L
MCPA

(present as ester) 280 g/L

REGISTRATION NUMBER: 25688
PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

WARNING

POISON

BUCTRIL is a registered trademark of ~~Rhône-Poulenc Agrochimie~~,
Lyon - authorized User ~~Rhône-poulenc Canada Inc.~~

PUMA is a registered trademark of Hoechst Schening AgrEvo GmbH,
Germany.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with eyes, skin and clothing. Wash concentrate from skin or eyes immediately. Avoid working in spray mist. After use wash hands and other exposed skin. Avoid contamination of ponds, streams, rivers and other water sources.

Wear chemical resistant nitril gloves, e.g. Edmont Sol-Vex #37-155/#37-145 or Pioneer A-15. Gloves which are in good condition must be worn when mixing/loading, spraying, and during cleanup and repair.

FIRST AID FOR BUCTRIL M HERBICIDE:

Remove person from contaminated area, remove contaminated clothing. Keep patient warm, comfortable, at rest.

Eye Contact: Flush with water for 15 minutes. Get medical attention or contact a poison control centre.

Skin Contact: Remove contaminated clothing then wash the exposed skin with soap and water.

Inhalation: Remove individual to fresh air. Loosen constricting clothing. Contact immediate medical assistance or contact a poison control centre. If breathing has ceased, start artificial respiration.

Ingestion: In case of accidental swallowing DO NOT induce vomiting. Wash out mouth if product was ingested. Obtain immediate medical assistance or contact a poison control centre.

TOXICOLOGY:

This product contains an aromatic hydrocarbon solvent.

STORAGE CONDITIONS:

Store the container tightly closed away from seeds, fertilizers, plants and foodstuffs. This BUCTRIL M formulation will solidify at temperatures below -20°C but will become usable at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination

DISPOSAL FOR NON-RETURNABLE CONTAINERS:

1. Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product and cleanup of spills, contact the provincial regulatory agency or the manufacturer.

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.

NOTICE TO USER: This control product is to be used only in accordance with the directions on the label. It is an offense under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

Notification Change

((BOOKLET))

Bayer Cropscience Inc.

~~Agrevo~~

PUMA®

ONE PASS

POST-EMERGENT HERBICIDE TANK MIX

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

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

READ THE LABEL

AND BOOKLET BEFORE USING

Notification Change

Bayer Cropscience Inc. □

Suite 100 □

3131-114th Ave. S.E. □

Calgary, AB T2Z 3X2

~~**AgrEvo Canada Inc.**~~

~~295 Henderson Drive~~

~~Regina, SK S4N 6C2~~

~~**Telephone: 1-800-667-5959**~~

PUMA ONE PASS Herbicide Tank Mix

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For More Information, Contact:

AgrEvo Canada Inc.
 295 Henderson Drive
 Regina, SK S4N 6C2
Telephone: 1-800-667-5959

GENERAL INFORMATION

Section 1: The Product

The Product:

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

- 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.
- S** PUMA 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 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:

- 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)

- **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.

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

TOXICOLOGICAL INFORMATION:

- Medical personnel should contact AgrEvo's medical information services toll-free 1-800-228-5635, ext. 211.
- 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 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 (e.g. Tame Oats, flowers, trees or shrubs) and non-target areas.
- USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

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

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.

Returnable Container Disposal:

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 field just sprayed, away from water supplies, ditches, and irrigation canals.

DIRECTIONS FOR USE

Section 7: Crops, Weeds, Rates, Timing, and 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 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)

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 Thistle²
 Scentless Chamomile³
 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:

- ¹ In normal conditions Cow Cockle will be controlled up to the 4 leaf stage. Plants beyond this stage are unlikely to be controlled.
- ² Spray before plants are 5 cm high.
- ³ 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 1 L/ha and BUCTRIL M Herbicide at 1 L/ha.

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 PUMA 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.

- If another pesticide has been applied, wait 7 days before applying PUMA 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.
- 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 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, 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.

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. Slowly 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 AgrEvo representative for assistance, or call AgrEvo Canada Inc. toll-free 1-800-667-5959.
- 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.

Notification Change

FOR MORE INFORMATION CONTACT:

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295 Henderson Drive	Suite 100 □
Regina, SK S4N 6C2	3131-114th Ave. S.E. □
Telephone: 1-800-667-5959	Calgary, AB T2Z 3X2

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