



# BUCTRIL M

GROUP	4	6	HERBICIDE
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## Selective Herbicide

For use in WHEAT (spring, durum & winter), BARLEY, OATS, FLAX (including Low Linolenic Acid Varieties), CORN (field, sweet), FALL RYE, CANARY SEED, SEEDLING GRASSES, ESTABLISHED GRASSES, PERENNIAL CEREAL RYE

## AGRICULTURAL

### Emulsifiable Concentrate

#### ACTIVE INGREDIENT:

bromoxynil (present as mixed octanoate and heptanoate esters)	280 g/L
MCPA (present as 2-ethylhexyl ester)	280 g a.e./L

## REGISTRATION NO. 18022 PEST CONTROL PRODUCTS ACT



WARNING

POISON

**READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

Product Information: 1-888-283-6847

[www.cropscience.bayer.ca](http://www.cropscience.bayer.ca)

Bayer CropScience Inc.

Suite 200, 160 Quarry Park Blvd S.E.

Calgary, Alberta T2C 3G3

IN CASE OF SPILLS, POISONING OR FIRE, TELEPHONE EMERGENCY RESPONSE NUMBER (TOLL-FREE) 1-800-334-7577 (24 HOURS A DAY).

**NET CONTENTS: 1 L – Bulk**

**PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Wash concentrate from skin or eyes immediately. Avoid working in spray mist. After use wash hands and other exposed skin.

**Ground applications:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean up and repair. Wear a long-sleeved shirt and long pants, chemical resistant gloves, and socks plus shoes during applications. Gloves are not required during application within a closed cab.

**Aerial applications: the field crew and the mixer/loaders:** Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean up and repair.

**Aerial applicators:** Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. Do not allow the pilot to mix chemicals to be loaded onto the aircraft.

Do NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area being treated during the application. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. DO NOT reuse them.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields, and public buildings. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

DO NOT enter or allow worker entry into treated areas during the restricted-entry intervals (REIs) specified in the following table:

CROP	POST-APPLICATION ACTIVITY	REI
Sweet Corn	Irrigation, handset	5 days
	Harvest, hand	20 days
	All other activities	24 hours

For other crops DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) or 24 hours.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

**PRE-HARVEST GRAZING INTERVALS:**

Do not use treated crops for grazing of livestock or green feed until 30 days after application of BUCTRIL M. Do not cut treated crops for forage until 30 days after application of BUCTRIL M. When applied in a tank mixture, always respect the maximum pre-harvest interval stated on the labels of all the tank mix products. Withdraw meat animals from treated fields at least 3 days before slaughter.

**ENVIRONMENTAL PRECAUTIONS:** This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. This product is also toxic to non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment. Avoid contamination of ponds, streams, rivers and other water sources. Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

**Surface Runoff:** To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body. **Leaching:** The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sand, loamy sand and sandy loam soils) and/or the depth to the water table is shallow.

**FIRST AID:** Remove person from contaminated area, remove contaminated clothing. Keep patient warm, comfortable, at rest. **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. **If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not give **any** liquid to the person. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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

**TOXICOLOGICAL INFORMATION:** Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1800-334-7577. This product contains an aromatic hydrocarbon solvent. Vomiting may cause aspiration pneumonia. High concentrations of MCPA may cause severe irritation to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low blood pressure and unconsciousness. Treat symptomatically.

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

**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.

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**REFILLABLE CONTAINER DISPOSAL:** For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

**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.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.



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**STORAGE CONDITIONS:**

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**NOTICE TO USER:**

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**DIRECTIONS FOR USE:**

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**TIMING:** For best results, spray when weeds are in the seedling stage. Apply in good growing conditions. Application must be made before the crop shields the weeds.

**SPRAYER:** Wash the tank and clean all filters, screens and tips. Select nozzle tips to apply the recommended volume per hectare. Flood jet type tips are not recommended.

**FIELD SPRAYER APPLICATIONS:**

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. Boom height must be 60 cm above crop or ground. Adjust boom height to ensure uniform coverage of the weeds. Spray at 5 – 10 Kph. Ensure that all tips are in good condition and spraying the same volume.

**MIXING:** Half fill the tank with clean water. Add the required amount of BUCTRIL M and agitate thoroughly. Fill the tank and agitate again before use.

## **AERIAL APPLICATION (wheat, barley and oats only):**

### **Aerial Application Instructions:**

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) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wingspan or rotorspan.

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 rate and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

### **Use Precautions:**

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

DO NOT apply to any body of water. Avoid drifting of spray onto any body of water or other nontarget areas. Specified buffer zones should be observed. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). DO NOT apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. DO NOT spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelterbelt) or aquatic habitat.

### **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 pilots have communication capabilities at each treatment site at the time of application.

Aerial applicators must wear long pants and a long-sleeved shirt. The field crew and the mixer/loaders must wear long pants and long-sleeved shirt, chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Aircraft must be closed cab. Mixer/loader and applicator must be different individuals. No human flaggers permitted.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

**Product Specific Precautions:**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-888-283-6847 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

**Volume:** BUCTRIL M must be applied in volume rates of not less than 20 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, smartweed, hempnettle, pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

**BUFFER ZONES:**

Use of the following spray methods or equipment do not require a buffer zone: handheld 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 scrublands, sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop		Buffer Zones (meters) Required for the Protection of:				Terrestrial Habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer	All Crops		1	1	1	1	4
Aerial	Oats	Fixed Wing	15	2	1	1	60
		Rotary Wing	15	1	1	1	50
	Barley and wheat	Fixed Wing	20	5	1	1	60
		Rotary Wing	20	3	1	1	50

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray 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.

**RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that BUCTRIL M is both a Group 4 and a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to BUCTRIL M and other Group 4 and Group 6 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:

1. Where possible, rotate the use of BUCTRIL M or other Group 4 and 6 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
2. Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
3. Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
4. Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
5. Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
6. 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.
7. For further information or to report suspected resistance, contact Bayer CropScience Inc. at 1-888-283-6847.

**PAGE SELECTION GUIDE**

	WHEAT	BARLEY	OATS	CORN (field, sweet)	FALL RYE	FLAX	CANARY SEED	SEEDLING GRASSES	ESTABLISHED GRASSES	PERENNIAL CEREAL RYE
BUCTRIL M	X	X	X	X	X	X	X	X	X	X
BUCTRIL M + MCPA	X	X	X							
BUCTRIL M + ACHIEVE Liquid Herbicide	X	X								
BUCTRIL M + ALLY Herbicide	X	X								
BUCTRIL M + HORIZON NG Herbicide	X									
BUCTRIL M + PUMA ADVANCE HERBICIDE	X	X								
BUCTRIL M + REFINE SG Herbicide + PUMA ADVANCE HERBICIDE	X	X								
BUCTRIL M + ACCORD Dry Flowable Herbicide	X						X			
BUCTRIL M + REFINE SG Herbicide	X	X								
BUCTRIL M + EVEREST 3.0 or EVEREST 3.0 AG Herbicide	X									
BUCTRIL M + AXIAL 100EC Herbicide or AXIAL Herbicide	X	X								
BUCTRIL M + VARRO HERBICIDE	X									
BUCTRIL M + Aatrex Liquid 480 Herbicide or Converge 480 Herbicide				X						
BUCTRIL M + SELECT Emulsifiable Concentrate Post-Emergence or CENTURION Emulsifiable Concentrate Post-Emergence Herbicide						X				
BUCTRIL M + POAST ULTRA Liquid Emulsifiable Herbicide						X				

For tank mixes refer to all product labels for the correct application timing.

### **TANK MIXES:**

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This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Bayer CropScience Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca) for information before applying any tank mix that is not specifically recommended on this label.

Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

<b>WHEAT (spring, durum &amp; winter)</b> <b>(not underseeded to legumes)</b>
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### **BUCTRIL M USED ALONE**

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 20-40 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, smartweed, hempnettle, pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

**TIMING:** Spring wheat may be treated from the 2-leaf until the early flag leaf stage. Winter wheat may be treated from the 2- to 4-leaf stage in the fall or from the time growth commences to the early flag leaf stage in the spring.

**APPLICATION RATE:** 1 L/ha. A maximum of 1 application per year.

2024-3019  
2025-01-06

**WEEDS CONTROLLED:**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade  
Jimsonweed

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Seedlings at 2- to 12-leaf stage**

Prickly lettuce\*\*\*\*\*

**Perennials: Top-growth suppression**

Canada thistle  
Perennial sow-thistle

\* *In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

\*\* *Spray before plants are 5 cm high.*

\*\*\* *Spring annuals only.*

\*\*\*\* *Spray before plants are 8 cm high.*

\*\*\*\*\* *Suppression only in winter wheat only*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

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**BUCTRIL M + MCPA**

**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 30-40 L/ha.

**TIMING:** Spring wheat may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with 275 g active ingredient MCPA per hectare. A maximum of 1 application per year.

**NOTE:** Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, and then add BUCTRIL M.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone plus these additional weeds.

**Seedlings up to 4-leaf stage**

Hempnettle\*

**Seedlings up to 8-leaf stage**

Volunteer rapeseed (including Canola)

*\*Hempnettle is unlikely to be controlled beyond the 4-leaf stage. Plants emerging after application, which is often the case on peat- type soils, will not be controlled.*

**BUCTRIL M + ACHIEVE LIQUID HERBICIDE  
(spring wheat and durum wheat)**

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Follow all mixing and spraying precautions, limitations and timing recommendations on the ACHIEVE LIQUID Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in 50-100 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 30-40 L/ha.

**TIMING:** Applications of BUCTRIL M + ACHIEVE Liquid Herbicide tank mixtures should be made to spring wheat from the 2-leaf until the early flag leaf stage of growth (total leaves including tillers) (Zadoks or BBCH growth stage of 11,20 to 14,21), when wild oats are at the 1- to 6-leaf stage of growth (total leaves including tillers) (Zadoks or BBCH growth stage of 11,20 to 14,22) and when green foxtail (wild millet) is at the 1- to 5-leaf stage of growth (Zadoks or BBCH growth stage of 11,20 to 14,21). Refer to the illustration on the ACHIEVE Liquid Herbicide label.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with ACHIEVE Liquid Herbicide at 0.5 L/ha. When using this tank mixture, add TURBOCHARGE Adjuvant to the spray tank at a concentration of 0.5% v/v (i.e., 0.5 L of TURBOCHARGE Adjuvant per 100 L of spray solution). A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for the BUCTRIL M alone plus wild oats and green foxtail (wild millet).

**NOTE:** BUCTRIL M + ACHIEVE Liquid Herbicide tank mixtures can be used in all varieties of spring wheat (including hard red spring, Canada prairie spring, soft white spring, and utility) and durum.

Only apply this mixture to spring or durum wheat that is NOT UNDERSEEDDED TO LEGUMES.

**BUCTRIL M + ALLY HERBICIDE**

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**NOTE:** Refer to the ALLY Herbicide label for all precautions, including limitations on soil pH, crop rotations and sprayer cleanup.

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 100 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Spring wheat (not underseeded with other crops) may be treated from the 2-leaf to early flag leaf stage.

**APPLICATION RATE:** BUSTRIL M at 1 L/ha tank mixed with ALLY Herbicide at 7.5 g/ha plus a surfactant as required on the ALLY Herbicide label. Add ALLY Herbicide to the required water volume in the tank first, agitate, then add BUSTRIL M, agitate, and then add the surfactant. On repeat tank loads, prepare an ALLY Herbicide/water slurry and add it to the required water volume in the tank prior to adding the BUSTRIL M. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed on BUCTRIL M alone at the recommended rate, plus hempnettle up to the 8-leaf stage (4 pairs of leaves), and chickweed up to 7 cm high. For best results, apply to the first main flush of young, actively growing weeds.

**BUCTRIL M + HORIZON NG HERBICIDE**  
**(spring wheat and durum wheat)**

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For use in Manitoba, Saskatchewan, Alberta and Interior of British Columbia only.

Follow all mixing and spraying precautions, limitations and timing recommendations in the HORIZON NG Herbicide booklet.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in 100 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Applications of BUCTRIL M + HORIZON NG Herbicide should be made to spring wheat and durum wheat from the 2-leaf until the early flag leaf stage of growth (total leaves including tillers) (Zadoks or BBCH growth stage of 11,20 to 14,21), and when wild oats or volunteer canary seed are at the 1- to 6-leaf stage of growth and prior to emergence of 4<sup>th</sup> tiller, when volunteer (tame) oats are at the 3- to 6-leaf stage and prior to emergence of 4<sup>th</sup> tiller, and when green foxtail (wild millet), yellow foxtail, barnyard grass or persian darnel is at the 1- to 5-leaf stage of growth.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with HORIZON NG Herbicide at 930 mL/ha for wild oat, volunteer (tame) oat, green foxtail (wild millet), yellow foxtail, barnyard grass and volunteer canary seed control. For control of the preceding weeds plus persian darnel, add 1.17 L/ha HORIZON NG Herbicide. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed on BUCTRIL M alone plus wild oats, volunteer (tame) oat, green foxtail (wild millet), yellow foxtail, barnyard grass, volunteer canary seed and persian darnel.

**NOTE:** BUCTRIL M + HORIZON NG Herbicide can be used in all varieties of spring wheat (including hard red spring, Canada prairie spring, soft white spring and utility) and durum wheat.

Only apply this tank mixture to wheat that is NOT UNDERSEED TO LEGUMES. Rainfall within 1 hour of application may reduce effectiveness of tank mix.

**BUCTRIL M + PUMA ADVANCE HERBICIDE**  
**(spring wheat and durum wheat)**

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For use in Eastern Canada, Manitoba, Saskatchewan, Alberta and the Interior of British Columbia only.

**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the PUMA ADVANCE HERBICIDE label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in a minimum of 55 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in 35-40 litres of water per hectare.

**TIMING:** Application of BUCTRIL M+ PUMA ADVANCE HERBICIDE tank mixtures should be made to spring wheat and durum wheat from the 1- to 6-leaf stage of growth on the main stem plus 3 tillers. Application beyond the 6-leaf stage of spring and durum wheat may result in crop injury. Apply when annual grassy weeds are in the 1- to 6-leaf stage of growth.

**APPLICATION RATE:** BUCTRIL M at 1.0 L/ha tank mixed with PUMA ADVANCE HERBICIDE at 1.02 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone plus wild oats, green foxtail (wild millet), yellow foxtail and barnyard grass.

**APPLICATION RATE:** BUCTRIL M at 1.0 L/ha tank mixed with PUMA ADVANCE HERBICIDE at 0.51 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone and green foxtail (wild millet).

**NOTE:** BUCTRIL M + PUMA ADVANCE HERBICIDE tank mixtures can be used in all varieties of spring wheat (including hard red spring, Canada prairie spring, soft white spring and utility) and durum wheat.

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

**BUCTRIL M+ REFINE SG HERBICIDE + PUMA ADVANCE HERBICIDE  
(spring wheat and durum wheat):**

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For use in Eastern Canada, Manitoba, Saskatchewan, Alberta and Interior of British Columbia only.

**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the REFINE SG Herbicide and PUMA ADVANCE HERBICIDE labels.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in a minimum of 55 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 3540 L/ha.

**TIMING:** Applications of BUCTRIL M + REFINE SG Herbicide + PUMA ADVANCE HERBICIDE should be made to spring wheat and durum wheat from the 2- to 6-leaf stage of growth on the main stem plus 3

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tillers. Application beyond the 6-leaf stage of spring and durum wheat may result in crop injury. Apply when annual grassy weeds are in the 1- to 6-leaf stage of growth.

**APPLICATION RATE:** BUSTRIL M at 1.0 L/ha tank mixed with REFINE SG Herbicide at 10 g/ha + PUMA ADVANCE HERBICIDE at 1.02 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUSTRIL M alone at the recommended rate, plus hempnettle up to the 6-leaf stage (3 pairs of leaves), chickweed up to the 6-leaf stage (3 pairs of leaves), wild oats, green foxtail (wild millet), yellow foxtail and barnyard grass. For best results, apply to the first main flush of young, actively growing weeds.

**APPLICATION RATE:** BUSTRIL M at 1.0 L/ha tank mixed with REFINE SG Herbicide at 10 g/ha + PUMA ADVANCE HERBICIDE at 0.51 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUSTRIL M alone at the recommended rate, plus hempnettle up to the 6-leaf stage (3 pairs of leaves), chickweed up to the 6-leaf stage (3 pairs of leaves), and green foxtail (wild millet). For best results, apply to the first main flush of young, actively growing weeds.

**BUSTRIL M + ACCORD DRY FLOWABLE HERBICIDE  
(spring wheat and durum wheat) (not underseeded to forages)**

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For use in the Prairie Provinces and Interior of British Columbia only.

**NOTE:** Follow all mixing and spraying precautions, rotational cropping instructions, limitations and timing recommendations on the ACCORD Dry Flowable Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in 100 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Spring wheat may be treated from the 2- to 5-leaf stage, green foxtail 1- to 5-leaf maximum of 2 tillers, barnyard grass 1- to 5-leaf, cleavers 1- to 3-whorls, volunteer flax 1 to 8 cm and broadleaf weeds in the seedling stage as listed for BUSTRIL M alone.

**APPLICATION RATE:** BUSTRIL M at 1 L/ha tank mixed with ACCORD Dry Flowable Herbicide at 135-165 g/ha plus MERGE Adjuvant at a concentration of 1.0% v/v (i.e., 1 L per 100 L of spray solution). The level of green foxtail control may be improved by using the 165 g/ha rate of ACCORD Dry Flowable Herbicide in the tank mixture. If grassy weeds and broadleaf weeds are not in the recommended treatment stage at the same time, then separate applications should be made. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUSTRIL M alone plus green foxtail (including Group 1 and Group 3 resistant biotypes), volunteer flax, cleavers, and barnyard grass.

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**NOTES:** BUCTRIL M + ACCORD Dry Flowable Herbicide tank mixtures can be used in hard red spring, Canadian prairie spring, durum, and Canada Western extra strong wheat.

Do not graze or cut for hay within 77 days of application.

Do not apply ACCORD Dry Flowable Herbicide to any field more often than every second year. However, in the event of crop failure, spring and durum wheat may be reseeded in fields treated with ACCORD Dry Flowable Herbicide.

## **BUCTRIL M + REFINE SG HERBICIDE** **(winter wheat, spring wheat and durum wheat)**

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**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the REFINE SG Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in a minimum water volume of 55 litres per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 25-40 L/ha.

**TIMING:** Spring wheat (not underseeded with other crops) may be treated from the 2-leaf to early flag leaf stage.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with REFINE SG Herbicide at 10 g/ha plus a surfactant as required on the REFINE SG Herbicide label. Add REFINE SG Herbicide to the required water volume in the tank first, agitate, then add BUCTRIL M, agitate, then add the surfactant. On repeat tank loads, prepare a REFINE SG Herbicide water slurry and add it to the required water volume in the tank prior to adding the BUCTRIL M. A maximum of 1 application per year.

### **WEEDS CONTROLLED:**

As listed for BUCTRIL M alone at the recommended rate, plus hempnettle up to the 6-leaf stage (3 pairs of leaves), and chickweed up to the 6-leaf stage (3 pairs of leaves). For best results, apply to the first main flush of young, actively growing weeds.

## **BUCTRIL M + EVEREST 3.0 or EVEREST 3.0 AG HERBICIDE** **(spring wheat)**

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For use in Manitoba, Saskatchewan, Alberta and Interior of British Columbia only.

**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the EVEREST 3.0 or EVEREST 3.0 AG Herbicide labels.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in a spray volume of 50-100 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Application of BUCTRIL M + EVEREST 3.0 or EVEREST 3.0 AG Herbicide tank mixtures should be made to spring wheat from the 1- to 4-leaf stage of growth on the main stem plus 2 tillers. Application beyond the 4-leaf stage of spring wheat may result in crop injury. Apply to wild oats and green foxtail (wild millet) when no larger than 4-leaf - 2 tillers, to redroot pigweed, volunteer canola and green smartweed prior to the 6-leaf stage of growth, and to stinkweed prior to the 9-leaf stage of growth.

**APPLICATION RATE:** BUCTRIL M at 1.0 L/ha tank mixed with EVEREST 3.0 or EVEREST 3.0 AG Herbicide at 144 mL/ha plus an adjuvant listed on the EVEREST 3.0 or EVEREST 3.0 AG Herbicide labels at a

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concentration of 0.25% v/v (i.e., 250 mL/ha with 100 L/ha of water). A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone plus wild oats and green foxtail (wild millet).

**APPLICATION RATE:** BUCTRIL M at 1.0 L/ha tank mixed with EVEREST 3.0 or EVEREST 3.0 AG Herbicide at 72 mL/ha.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone plus green foxtail (wild millet).

**NOTE:** BUCTRIL M + EVEREST 3.0 or EVEREST 3.0 AG Herbicide tank mixtures can be used in all varieties of spring wheat (including hard red spring, Canada prairie spring, soft white spring and extra strong or utility). Do not feed or graze treated fields. Wheat grain or straw from treated fields may be fed to livestock. Observe a minimum interval to harvest of 80 days after treatment. Do not apply if rain is expected within 1 hour after spraying.

**BUCTRIL M + AXIAL 100EC HERBICIDE or AXIAL HERBICIDE  
(spring wheat only)**

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For use in the Prairie Provinces and Interior of British Columbia only.

Follow all mixing and spraying precautions, limitations and timing recommendations on the AXIAL 100EC Herbicide or AXIAL Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in 50-100 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 30-40 L/ha.

**TIMING:** Spring wheat may be treated prior to the flag leaf stage, and when annual grasses are at the 1- to 6-leaf stage, prior to 4<sup>th</sup> tiller.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with AXIAL 100EC Herbicide at 600 mL/ha plus ADIGOR Adjuvant at 700 mL/ha or with AXIAL Herbicide at 1200 mL/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:** As listed for BUCTRIL M alone plus wild oats, green foxtail, yellow foxtail, volunteer oats, volunteer canary seed and proso millet.

**NOTE:** BUCTRIL M + AXIAL 100EC Herbicide or AXIAL Herbicide can be used in all varieties of spring wheat. One application per year is permitted. Observe a minimum interval to harvest of 60 days after treatment for grain and straw and of 30 days after treatment for hay and grazing of livestock. Do not

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apply if rain is expected within 1 hour after spraying. Only apply this tank mixture to wheat that is NOT UNDERSEEDDED TO LEGUMES.

**BUCTRIL M + VARRO HERBICIDE**  
**(spring wheat and durum wheat)**

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For use in Manitoba, Saskatchewan, Alberta and Interior of British Columbia only.

Follow all precautions, limitations and timing recommendations on the VARRO Herbicide label.

**SPRAY VOLUME AND PRESSURE:** For ground application, apply in 50-93.5 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 28-40 L/ha.

**TIMING:** Spring and durum wheat may be treated from the 2-leaf stage up to the 6-leaf / 3 tiller stage. Applications must be made prior to jointing (prior to presence of the first node on the main stem). Best weed control is achieved when application is made to species at the growth stages listed on the BUCTRIL M and VARRO HERBICIDE labels.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with VARRO HERBICIDE at 0.5 L/ha.

**WEEDS CONTROLLED:** As listed on the BUCTRIL M and VARRO HERBICIDE labels.

**WHEAT (winter)**  
**(underseeded to red clover)**  
For use in Eastern Canada only

## **BUCTRIL M USED ALONE**

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 200 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 20-40 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, smartweed, hempnettle, pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

**TIMING:** Apply in the spring when the red clover is in the 1st to 3rd trifoliate leaf stage and when the winter wheat provides a protective canopy over the red clover. The winter wheat may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** 1 L/ha. A maximum of 1 application per year.

**NOTE:** Use of this product may cause temporary leaf scorch or foliar burn in adverse growing conditions, especially if applied before or during periods of hot and humid weather conditions. Do not apply if the red clover is under stress. Avoid overlapping as severe crop injury may occur.

### **WEEDS CONTROLLED:**

#### **Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade  
Jimsonweed

#### **Seedlings up to 6-leaf stage**

Wild tomato

#### **Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

#### **Seedlings at 2- to 12-leaf stage**

Prickly lettuce\*\*\*\*\*

#### **Perennials: Top-growth suppression**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

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\*\**Spray before plants are 5 cm high.*

\*\*\**Spring annuals only.*

\*\*\*\**Spray before plants are 8 cm high.*

\*\*\*\*\* *Suppression only*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

## BARLEY

(not underseeded to legumes)

### BUCTRIL M USED ALONE

**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 20-40 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, smartweed, hempnettle, pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

**TIMING:** The crop may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** 1 L/ha. A maximum of 1 application per year.

#### WEEDS CONTROLLED:

##### Seedlings up to 4-leaf stage

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade  
Jimsonweed

##### Seedlings up to 6-leaf stage

Wild tomato

##### Seedlings up to 8-leaf stage

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

##### Perennials: Top-growth suppression

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*\*\*Spray before plants are 5 cm high.*

*\*\*\*Spring annuals only.*

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\*\*\**Spray before plants are 8 cm high.*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

## **BUCTRIL M + MCPA**

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 30-40 L/ha.

**TIMING:** The crop may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with 275 g active ingredient MCPA per hectare. A maximum of 1 application per year.

**NOTE:** Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add BUCTRIL M.

### **WEEDS CONTROLLED:**

As listed for BUCTRIL M alone plus these additional weeds.

#### **Seedlings up to 4-leaf stage**

Hempnettle\*

*\*Hempnettle is unlikely to be controlled beyond the 4-leaf stage. Plants emerging after application, which is often the case on peat- type soils, will not be controlled.*

#### **Seedlings up to 8-leaf stage**

Volunteer rapeseed (including Canola)

## **BUCTRIL M + ACHIEVE LIQUID HERBICIDE (spring barley only)**

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Follow all mixing and spraying precautions, limitations and timing recommendations on the ACHIEVE LIQUID Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in 50-100 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 30-40 L/ha.

**TIMING:** Applications of BUCTRIL M + ACHIEVE Liquid Herbicide tank mixtures should be made to spring barley from the 2-leaf until the early flag leaf stage of growth (total leaves including tillers) (Zadoks or BBCH growth stage of 11,20 to 14,21) and when wild oats are at the 1- to 6-leaf stage of growth (total leaves including tillers) (Zadoks or BBCH growth stage of 11,20 to 14,22) and when green foxtail (wild millet) is at the 1- to 5-leaf stage of growth (Zadoks or BBCH growth stage of 11,20 to 14,21). Refer to the illustration on the ACHIEVE Liquid Herbicide label.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with ACHIEVE Liquid Herbicide at 0.5 L/ha. When using this tank mixture, add Turbocharge Adjuvant to the spray tank at a concentration of 0.5% v/v (i.e., 0.5 L of Turbocharge Adjuvant per 100 L of spray solution). A maximum of 1 application per year.

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**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone plus wild oats and green foxtail (wild millet).

**NOTE:** BUCTRIL M + ACHIEVE LIQUID Herbicide tank mixtures can be used in all 2 or 6 row varieties of barley (malting and general purpose varieties including semi-dwarf and hulless). Only apply this mixture to spring barley that is NOT UNDERSEEDED TO LEGUMES.

**BUCTRIL M + ALLY HERBICIDE**

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**NOTE:** Refer to the ALLY Herbicide label for all precautions, including limitations on soil pH, crop rotations and sprayer cleanup.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 100 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Barley (not underseeded with other crops) may be treated from the 2-leaf to early flag leaf stage.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with ALLY Herbicide at 7.5 g/ha plus a surfactant as required on the ALLY Herbicide label. Add ALLY Herbicide to the required water volume in the tank first, agitate, then add BUCTRIL M, agitate, then add the surfactant. On repeat tank loads, prepare an ALLY Herbicide /water slurry and add it to the required water volume in the tank prior to adding the BUCTRIL M. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone at the recommended rate, plus hempnettle up to the 8-leaf stage (4 pairs of leaves), and chickweed up to 7 cm high. For best results, apply to the first main flush of young, actively growing weeds.

**BUCTRIL M + REFINE SG HERBICIDE  
(spring barley)**

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**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the REFINE SG Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in a minimum water volume of 55 litres per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 25-40 L/ha.

**TIMING:** Spring barley (not underseeded with other crops) may be treated from the 2-leaf to early flag leaf stage.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with REFINE SG at 10 g/ha plus a surfactant as required on the REFINE SG Herbicide label. Add REFINE SG Herbicide to the required water volume in the tank first, agitate, then add BUCTRIL M, agitate, then add the surfactant. On repeat tank loads, prepare a REFINE SG Herbicide/water slurry and add it to the required water volume in the tank prior to adding the BUCTRIL M. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone at the recommended rate, plus hempnettle up to the 6-leaf stage (3 pairs of leaves), and chickweed up to the 6-leaf stage (3 pairs of leaves). For best results, apply to the first main flush of young, actively growing weeds.

**BUCTRIL M + PUMA ADVANCE HERBICIDE  
(spring barley)**

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For use in Eastern Canada, Manitoba, Saskatchewan, Alberta and Interior of British Columbia only

Follow all mixing and spraying precautions, limitations and timing recommendations on the PUMA ADVANCE HERBICIDE label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in a minimum of 55 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in 35-40 litres of water per hectare.

**TIMING:** Application of BUCTRIL M + PUMA ADVANCE HERBICIDE should be made to spring barley from the 2- to 6-leaf stage of growth on the main stem plus 3 tillers. Application beyond the 6-leaf stage of spring barley may result in crop injury. Apply when annual grassy weeds are in the 1- to 6-leaf stage of growth.

**APPLICATION RATE:** BUCTRIL M at 1.0 L/ha tank mixed with PUMA ADVANCE HERBICIDE at 1.02 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone plus wild oats, green foxtail (wild millet), yellow foxtail and barnyard grass.

**APPLICATION RATE:** BUCTRIL M at 1.0 L/ha tank mixed with PUMA ADVANCE HERBICIDE at 0.51 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone and green foxtail (wild millet).

**NOTE:** BUCTRIL M + PUMA ADVANCE HERBICIDE can be used in all varieties of spring barley. Do not apply if rain is expected within 1 hour after spraying.

## **BUCTRIL M + REFINE SG HERBICIDE + PUMA ADVANCE HERBICIDE (spring barley)**

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For use in Eastern Canada, Manitoba, Saskatchewan, Alberta plus Interior of British Columbia only.

**NOTE:** Follow all mixing and spraying precautions, limitations and timing recommendations on the REFINE SG Herbicide and PUMA ADVANCE Herbicide labels.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in a minimum of 55 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 35-40 L/ha.

**TIMING:** Applications of BUCTRIL M + REFINE SG Herbicide + PUMA ADVANCE HERBICIDE should be made to spring barley from the 2- to 6-leaf stage of growth on the main stem plus 3 tillers. Application beyond the 6-leaf stage of spring barley may result in crop injury. Apply when annual grassy weeds are in the 1- to 6-leaf stage of growth.

**APPLICATION RATE:** BUCTRIL M at 1.0 L/ha tank mixed with REFINE SG Herbicide at 10 g/ha + PUMA ADVANCE HERBICIDE at 1.02 L/ha. A maximum of 1 application per year.

### **WEEDS CONTROLLED:**

As listed for BUCTRIL M alone at the recommended rate, plus hempnettle up to the 6-leaf stage (3 pairs of leaves), chickweed up to the 6-leaf stage (3 pairs of leaves), wild oats, green foxtail (wild millet), yellow foxtail and barnyard grass. For best results, apply to the first main flush of young, actively growing weeds.

**APPLICATION RATE:** BUCTRIL M at 1.0 L/ha tank mixed with REFINE SG Herbicide at 10 g/ha + PUMA ADVANCE HERBICIDE at 0.51 L/ha. A maximum of 1 application per year.

### **WEEDS CONTROLLED:**

As listed for BUCTRIL M alone at the recommended rate, plus hempnettle up to the 6-leaf stage (3 pairs of leaves), chickweed up to the 6-leaf stage (3 pairs of leaves), and green foxtail (wild millet). For best results, apply to the first main flush of young, actively growing weeds.

## **BUCTRIL M + AXIAL 100EC HERBICIDE or AXIAL HERBICIDE (spring barley)**

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For use in the Prairie Provinces and Interior of British Columbia only.

Follow all mixing and spraying precautions, limitations and timing recommendations on the AXIAL 100 EC Herbicide OR AXIAL Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in 50-100 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 30-40 L/ha.

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**TIMING:** Spring barley may be treated prior to the flag leaf stage, and when annual grasses are at the 1 to 6-leaf stage, prior to 4<sup>th</sup> tiller.

**APPLICATION RATE:** BUSTRIL M at 1 L/ha tank mixed with AXIAL 100EC Herbicide at 600 mL/ha plus ADIGOR Adjuvant at 700 mL/ha or with AXIAL Herbicide at 1200 mL/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUSTRIL M alone plus wild oats, green foxtail, yellow foxtail, volunteer oats, volunteer canary seed and proso millet.

**NOTE:** BUSTRIL M + AXIAL 100EC Herbicide or AXIAL Herbicide can be used in all varieties of spring barley. One application per year is permitted. Observe a minimum interval to harvest of 60 days after treatment for grain and straw and of 30 days after treatment for hay and grazing of livestock. Do not apply if rain is expected within 1 hour after spraying. Only apply this tank mixture to spring barley that is NOT UNDERSEEDED TO LEGUMES.

**OATS**

**(not underseeded to legumes)**

**BUSTRIL M USED ALONE**

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 20-40 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, smartweed, hempnettle, pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

**TIMING:** The crop may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** 1 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

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### Seedlings up to 4-leaf stage

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade  
Jimsonweed

### Seedlings up to 6-leaf stage

Wild tomato

### Seedlings up to 8-leaf stage

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

### Perennials: Top-growth suppression

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*\*\*Spray before plants are 5 cm high.*

*\*\*\*Spring annuals only.*

*\*\*\*\*Spray before plants are 8 cm high.*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

## BUCTRIL M + MCPA

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. For aerial application, apply in a water volume of 30-40 L/ha.

**TIMING:** The crop may be treated from the 2-leaf until the early flag leaf stage.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with 275 g active ingredient MCPA per hectare. A maximum of 1 application per year.

**NOTE:** Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, and then add BUCTRIL M.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone plus these additional weeds.

**Seedlings up to 4-leaf stage**

Hempnettle\*

**Seedlings up to 8-leaf stage**

Volunteer rapeseed (including Canola)

*\*Hempnettle is unlikely to be controlled beyond the 4-leaf stage. Plants emerging after application, which is often the case on peat- type soils, will not be controlled.*

<b>CORN (field &amp; sweet)</b>
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**BUCTRIL M USED ALONE**

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in 200 – 300 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Corn should be treated with a broadcast post-emergence application at the recommended rate FROM THE 4- to 6-LEAF STAGE. Damage to corn will result if sprayed beyond the 6-leaf stage.

**APPLICATION RATE:** 1 L/ha. A maximum of 1 application per year.

**NOTE:** Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). Cultivation after application is not recommended. DO NOT ADD OIL OR SURFACTANT.

**WEEDS CONTROLLED:**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth suppression**

Canada thistle  
Perennial sow-thistle

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American nightshade

Jimsonweed

*\*In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*\*\*Spray before plants are 5 cm high.*

*\*\*\*Spring annuals only.*

*\*\*\*\*Spray before plants are 8 cm high.*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

### **BUCTRIL M + Aatrex Liquid 480 Herbicide or Converge 480 Herbicide**

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in 200 – 300 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Corn should be treated with a broadcast post-emergence application at the recommended rate FROM THE 4- to 6-LEAF STAGE. Damage to corn will result if sprayed beyond the 6-leaf stage.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with Aatrex Liquid 480 Herbicide or Converge 480 Herbicide at 1.1 – 2.25 kg active ingredient per hectare. Add Aatrex Liquid 480 Herbicide or Converge 480 Herbicide to the spray tank first, mix well, then add BUCTRIL M. A maximum of 1 application per year.

**NOTE:** Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). Cultivation after application is not recommended. DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL. Refer to the Aatrex Liquid 480 Herbicide or Converge 480 Herbicide labels for instructions, precautions and limitations, especially on crop restrictions for the following year.

#### **WEEDS CONTROLLED:**

As listed for BUCTRIL M used alone *plus* weeds as indicated on the Aatrex Liquid 480 Herbicide or Converge 480 Herbicide labels.

<b>FALL RYE</b>
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<b>(not underseeded to legumes)</b>
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### **BUCTRIL M USED ALONE**

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Fall rye may be treated from the time growth commences to the early flag leaf stage in the spring.

**APPLICATION RATE:** 1 L/ha. A maximum of 1 application per year.

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**WEEDS CONTROLLED:**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade  
Jimsonweed

*\*In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*\*\*Spray before plants are 5 cm high.*

*\*\*\*Spring annuals only.*

*\*\*\*\*Spray before plants are 8 cm high*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth suppression**

Canada thistle  
Perennial sow-thistle

**FLAX (including low linolenic acid varieties)**

**BUCTRIL M USED ALONE**

**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply BUCTRIL M when flax is 5 to 10 cm high. Some leaf burn and check to growth may follow spraying.

Observe a minimum interval to harvest of 60 days after application of BUCTRIL M.

**Spraying in the evening may reduce risk of flax injury.**

**WARNING:** Do not spray unthrifty crops or when plants are under stress. Do not spray in periods of hot, humid weather.

**APPLICATION RATE:** 1 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

Due to flax's less competitive nature, weeds should be sprayed in as early a leaf stage as possible, up to the recommended leaf stage.

**Seedlings up to 4-leaf stage**

Green smartweed

Pale smartweed

Lady's-thumb

Cow Cockle\*

Flixweed

Bluebur

Shepherd's-purse

Kochia\*\*

Russian thistle\*\*

Scentless chamomile\*\*\*

Volunteer sunflower

Volunteer rapeseed (including Canola)

Night flowering catchfly

Cocklebur

Velvetleaf\*\*\*\*

Ball mustard

American nightshade

Jimsonweed

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat

Tartary buckwheat

Common buckwheat

Stinkweed

Wild mustard

Wormseed mustard

Lamb's-quarters

Common ragweed

Common groundsel

**Perennials: Top-growth suppression**

Canada thistle

Perennial sow-thistle

*\*In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*\*\*Spray before plants are 5 cm high.*

*\*\*\*Spring annuals only.*

*\*\*\*\*Spray before plants are 8 cm high.*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

**BUCTRIL M + SELECT EMULSIFIABLE CONCENTRATE POSTEMERGENCE HERBICIDE or CENTURION EMULSIFIABLE CONCENTRATE POST-EMERGENCE HERBICIDE ON FLAX (including low linolenic acid varieties)**

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Follow all precautions, limitations and timing recommendations on the SELECT Emulsifiable Concentrate Postemergence Herbicide or CENTURION Emulsifiable Concentrate Post-emergence Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in 55 – 110 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Flax may be treated from 5 cm high up to the early bud stage. For best results, apply this tank mix when flax is 5-10 cm high and weeds are in the seedling stage. Leaf burn and check to crop growth may follow spraying. When using this tank mix, it is important that application be made at the recommended stage of weed growth, particularly where smartweed is present. If broadleaf weeds and grasses are not within the recommended stage at the same time, then separate applications should be made.

**WARNING:** Do not spray unthrifty crops or when flax is under stress due to drought or excess soil moisture. Do not spray in hot, humid weather conditions. This treatment may cause leaf burn, retarded growth and delayed maturity of the crop.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with 0.19 L/ha SELECT Emulsifiable Concentrate Post-Emergence Herbicide or CENTURION Emulsifiable Concentrate Postemergence Herbicide. AMIGO Adjuvant must be added as per the SELECT Emulsifiable Concentrate Post-Emergence Herbicide or CENTURION Emulsifiable Concentrate Postemergence Herbicide label directions. [One case (2 jugs) of BUCTRIL M + one jug of SELECT Emulsifiable Concentrate Post-Emergence Herbicide or CENTURION Emulsifiable Concentrate Postemergence Herbicide treats 16 ha.] Add BUCTRIL M to the spray tank half-filled with water, agitate, add SELECT Emulsifiable Concentrate Post-Emergence Herbicide or CENTURION Emulsifiable Concentrate Postemergence Herbicide, continue agitation, add AMIGO Adjuvant and remaining amount of water, continue to agitate. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone on flax *plus* these additional weeds:

Wild oats	Yellow & green foxtail
Barnyard grass	Volunteer wheat
Volunteer barley	Volunteer corn
Volunteer oats	

**BUCTRIL M + POAST ULTRA LIQUID EMULSIFIABLE HERBICIDE ON FLAX (including low linolenic acid varieties)**

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Follow all precautions, limitations and timing recommendations on the POAST ULTRA Liquid Emulsifiable Herbicide label.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in 50 – 100 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Flax may be treated from 5 to 10 cm high. Leaf burn and check to growth may follow spraying. When using this tank mix it is important that application be made at the recommended stage of weed growth, particularly where green and pale smartweed are present. If broad-leaved weeds and grasses are not within the recommended treatment stage at the same time, then separate applications should be made. Do not apply during flowering.

**WARNING:** Do not spray unthrifty crops or when flax is under stress due to drought or excess soil moisture. Do not spray in hot, humid weather conditions. This treatment may cause leaf burn, retarded growth and delayed maturity of the crop.

**APPLICATION RATE:** BUCTRIL M at 1 L/ha tank mixed with 0.32 – 0.47 L/ha POAST ULTRA Liquid Emulsifiable Herbicide. Merge Adjuvant must be added as per the POAST ULTRA Liquid Emulsifiable Herbicide label directions. For maximum crop safety, it is recommended that the lowest registered Merge Adjuvant rate be used in this tank mix. Add BUCTRIL M to the spray tank half-filled with water, agitate, add POAST ULTRA Liquid Emulsifiable Herbicide, agitate, add Merge Adjuvant, and agitate. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

As listed for BUCTRIL M alone *plus* these additional weeds.

Wild oats	Proso millet
Barnyard grass	Yellow & green foxtail
Volunteer barley	Volunteer wheat
Fall panicum	Volunteer corn
Large crabgrass	Witch grass
Persian darnel	

**CANARY SEED (*Phalaris canariensis*)**

**BUCTRIL M USED ALONE**

**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** The crop may be treated from the 3- to 5-leaf stage.

**APPLICATION RATE:** 1 L/ha. A maximum of 1 application per year.

**WEEDS CONTROLLED:**

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### Seedlings up to 4-leaf stage

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade  
Jimsonweed

### Seedlings up to 6-leaf stage

Wild tomato

### Seedlings up to 8-leaf stage

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

### Perennials: Top-growth suppression

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*\*\*Spray before plants are 5 cm high.*

*\*\*\*Spring annuals only.*

*\*\*\*\*Spray before plants are 8 cm high.*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

## BUCTRIL M + ACCORD DRY FLOWABLE HERBICIDE

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**SPRAY VOLUME:** For ground application, apply in 100 litres of water per hectare. DO NOT apply using aerial application equipment.

**TIMING:** Apply at the 3- to 5-leaf stage of canary seed. Apply post-emergence by ground application. Avoid over application. Make only one application per year. Observe a PHI of 77 days.

**RATE:** BUCTRIL M at 1L/ha + ACCORD Dry Flowable Herbicide at 133 g/ha.

### WEEDS CONTROLLED:

As listed for BUCTRIL M and ACCORD Dry Flowable Herbicide when used alone in canary seed.

<b>SEEDLING GRASSES (not underseeded to legumes)</b>
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**NOTE:** Grasses grown for seed production in the year of establishment only.

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**CROPS:** Brome grass, Crested wheat grass, Intermediate wheat grass, Slender wheat grass, Tall wheat grass, Russian wild rye, Timothy, Orchard grass, Creeping red fescue, Meadow fescue, Meadow foxtail, Seedling tall fescue, Seedling meadow bromegrass, Seedling streambank wheatgrass, and Reed canary grass.

**CAUTION:** Do not graze or harvest for green feed until 56 days after treatment.

**NOTE:** Meadow foxtail grown for forage production. Do not feed or graze in the year of establishment.

### **BUCTRIL M USED ALONE**

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**SPRAY VOLUME & PRESSURE:** For ground application, apply in 150 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**TIMING:** Seedling grasses may be treated from the 2- to 4-leaf stage. Make only one application per season.

**APPLICATION RATE:** 1 L/ha

#### **WEEDS CONTROLLED:**

##### **Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow Cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade  
Jimsonweed

##### **Seedlings up to 6-leaf stage**

Wild tomato

##### **Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

##### **Perennials: Top-growth suppression**

Canada thistle  
Perennial sow-thistle

*\*In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*\*\*Spray before plants are 5 cm high.*

*\*\*\*Spring annuals only.*

*\*\*\*\*Spray before plants are 8 cm high.*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

**ESTABLISHED GRASSES**  
**(not underseeded to legumes)**

**BUCTRIL M USED ALONE**

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**CROP:** Established Timothy *Grown for Seed*

**SPRAY VOLUME:** For ground application, apply in 150 litres of water per hectare. DO NOT apply using aerial application equipment.

**TIMING:** Apply prior to shot blade in the seed production year. Make only one application per season.

**RATE:** 1L/ha

**WEEDS CONTROLLED:**

As listed for BUCTRIL M used alone in seedling grasses.

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

**CROP:** Established Timothy *Grown for Hay*

**SPRAY VOLUME:** For ground application, apply in 150 litres of water per hectare. DO NOT apply using aerial application equipment.

**TIMING:** Apply at the 3- to 6-leaf stage of Timothy. Apply post-emergence by ground application. Make only one application per year. Observe a PHI of 30 days.

**RATE:** 1 L/ha

**WEEDS CONTROLLED:**

As listed for BUCTRIL M used alone in seedling grasses.

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

**MINOR USES:**

**PERENNIAL CEREAL RYE (not underseeded to legumes) and SWITCHGRASS, Established**  
**(not underseeded to legumes)**

**BUCTRIL M USED ALONE**

**NOTE TO USER:** The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Bayer CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

**CROP:** Perennial Cereal Rye (not underseeded to legumes)

**TIMING:** Established perennial cereal rye: Perennial cereal rye may be treated from the 2-leaf until early flag leaf stage. Establishment year: Perennial cereal rye may be treated from the 2- to 4-leaf stage in the fall or from the time growth commences to the early flag leaf stage in the spring. Make only one application per year. Observe a PHI of 30 days.

**SPRAY VOLUME & PRESSURE:** For ground application, apply in NOT LESS than 50 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**APPLICATION RATE:** 1 L/ha

**CROP:** Established Switchgrass (not underseeded to legumes)

**TIMING:** Switchgrass may be treated from the 2- to 4-leaf stage. Do not apply during the year of sowing/seeding. Avoid spray overlap. Make only one application per year. Observe a PHI of 30 days.

**SPRAY VOLUME & PRESSURE:** Apply in NO LESS than 50 litres of water per hectare at a pressure of 275 kPa. DO NOT apply using aerial application equipment.

**APPLICATION RATE:** 1 L/ha

**WEEDS CONTROLLED:**

**Seedlings up to 4-leaf stage**

Green smartweed  
Pale smartweed  
Lady's-thumb  
Cow cockle\*  
Redroot pigweed  
Flixweed  
Bluebur  
Shepherd's-purse  
Kochia\*\*  
Russian thistle\*\*  
Scentless chamomile\*\*\*  
Volunteer sunflower  
Volunteer rapeseed (including  
Canola)  
Night flowering catchfly  
Cocklebur  
Velvetleaf\*\*\*\*  
Ball mustard  
American nightshade  
Jimsonweed

**Seedlings up to 6-leaf stage**

Wild tomato

**Seedlings up to 8-leaf stage**

Wild buckwheat  
Tartary buckwheat  
Common buckwheat  
Stinkweed  
Wild mustard  
Wormseed mustard  
Lamb's-quarters  
Common ragweed  
Common groundsel

**Perennials: Top-growth  
suppression**

Canada thistle  
Perennial sow-thistle

*\* In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.*

*\*\* Spray before plants are 5 cm high.*

*\*\*\* Spring annuals only.*

*\*\*\*\* Spray before plants are 8 cm high.*

**Note:** Rainfall within 1 hour of application may reduce effectiveness.

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