

2019-4525  
2019-11-27

[CONTAINER LABEL FOR BOTTLE]

Group 2, 4, 6 Herbicide

# BATALIUM™

SUSPENSION CONCENTRATE HERBICIDE

AGRICULTURAL

FOR POSTEMERGENCE APPLICATION ON SPRING WHEAT (INCLUDING DURUM WHEAT) AND WINTER WHEAT FOR CONTROL OF GRASS AND BROADLEAF WEEDS

FOR SALE AND USE IN MANITOBA, SASKATCHEWAN, ALBERTA AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION OF BRITISH COLUMBIA) ONLY

**ACTIVE INGREDIENT:**

Flucarbazone (present as flucarbazone-sodium).....20.4 g/L  
Fluroxypyr (present as 1-meptylheptyl ester).....90.5 g/L  
MCPA (present as 2-ethylhexyl ester) .....241 g/L  
Bromoxynil (present as octanoate ester).....241 g/L

Warning, contains the allergen sulfites.

REGISTRATION NUMBER 33372

PEST CONTROL PRODUCTS ACT

WARNING



POISON

EYE IRRITANT

POTENTIAL SKIN SENSITIZER

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

STORE IN A COOL, DRY PLACE

NET CONTENTS: 250 mL to 1000 L

For Product Use Information Call 1-866-761-9397

ARYSTA LIFESCIENCE NORTH AMERICA, LLC

15401 Weston Parkway, Suite 150

Cary, NC 27513

FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE

CALL PROPHARMA: 1-866-303-6952 or +1-651-603-3432.

FOR 24-HOUR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure, or accident) CALL

CHEMTREC: 1-800-424-9300 or +1-703-527-3887.

xxxxxxV001

## **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.

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN.**

May irritate eyes. Avoid contact with eyes.

Harmful or Fatal if swallowed.

Potential skin sensitizer.

## **PROTECTIVE CLOTHING**

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.

Read and follow handling precautions and protective clothing recommendations on broadleaf herbicide and surfactant tank-mix partner labels. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep PPE apart from other laundry and wash separately.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

DO NOT use in residential areas. Residential areas are defined as any use site where bystanders, including children, could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public, including children, could be exposed.

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.

### **FIRST AID**

**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.

**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 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 INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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

### **TOXICOLOGICAL INFORMATION**

No specific antidote is available. Treat the patient symptomatically.

### **ENVIRONMENTAL PRECAUTIONS**

- TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.
- 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.

### **STORAGE AND DISPOSAL**

**STORAGE:** To prevent contamination store this product away from food or feed.

#### **DISPOSAL:**

##### **For recyclable containers**

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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**For containers that can be refilled for the user by the distributor/dealer**

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 reuse this container for any other purpose.

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 clean-up of spills.

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BATALIUM™ is a trademark of an Arysta LifeScience Group Company.

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## **PRODUCT INFORMATION**

**BATALIUM™** is a selective herbicide for post-emergence application in spring wheat (hard red spring, Canada Prairie spring, soft white spring, and extra strong or utility), durum wheat, and winter wheat.

**BATALIUM™** must be tank-mixed with a surfactant listed on this label.

**BATALIUM™** is absorbed by foliage and roots of grass and broadleaf weeds. These weeds cease growth soon after application, removing the competitive effects of susceptible weeds. However, complete weed control may not be seen for one to two weeks.

**BATALIUM™** will control wild oat biotypes which have developed resistance to ACCase (Group 1) and triallate (Group 8) herbicides. **BATALIUM™** will also control green foxtail biotypes resistant to ACCase (Group 1) and dinitroaniline (Group 3) herbicides. **BATALIUM™** will also control kochia biotypes resistant to ALS (Group 2) herbicides.

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN.**

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Harmful or Fatal if swallowed.

Potential skin sensitizer.

## **PROTECTIVE CLOTHING**

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.

Read and follow handling precautions and protective clothing recommendations on broadleaf herbicide and surfactant tank-mix partner labels. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep PPE apart from other laundry and wash separately.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on

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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.

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#### **TOXICOLOGICAL INFORMATION**

No specific antidote is available. Treat the patient symptomatically.

#### **ENVIRONMENTAL PRECAUTIONS**

- TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.
- 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.

## **STORAGE AND DISPOSAL**

**STORAGE:** To prevent contamination store this product away from food or feed.

### **DISPOSAL:**

#### **For recyclable containers**

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#### **For containers that can be refilled for the user by the distributor/dealer**

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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 clean-up of spills.

## **DIRECTIONS FOR USE**

### **General Precautions**

Read the entire DIRECTIONS FOR USE before using **BATALIUM™**.

- Do not apply post-emergence treatments if it is raining or if rainfall is expected within one (1) hour after application.
- Do not apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), or estuarine/marine habitats.
- Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of waste.
- Do not mix, load or clean spray equipment within 10 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.
- Do not graze treated fields or use green crop for feed. Wheat grain or straw from harvested treated fields may be fed to livestock.
- Do not allow this chemical to drift on to other crops, especially canola, tame oats, or other non-target crops.
- Observe minimum interval to harvest of 80 days after treatment.



- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Do not treat wheat underseeded to legumes.
- Do not freeze.
- 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.
- This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The uses of **BATALIUM™** in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

### **Ground Application**

- Apply in a spray volume of 50-100 L/ha (22.5-45 L/acre or 5-10 gallons/acre) at 207-345 kPa (30-50 PSI) pressure to ensure proper weed coverage.
- Flat fan nozzles of 80° or 110° are recommended for optimum coverage. Do not use floodjet nozzle or control droplet application equipment. Nozzles may be oriented 45° forward to enhance crop penetration and to give better weed coverage.
- Do not apply during periods of dead calm, Avoid application of this product when winds are gusty.
- DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

### **Aerial Application**

- Apply in no less than 28 L/ha spray volume at a pressure that delivers coarse spray droplets as classified by the ASAE.
- Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.
- Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.
- Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.
- To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65 % of the wing- or rotorspan.
- DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification.

### **Aerial 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 terrain where there is potential for surface run off to enter aquatic systems.
- Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specific buffer zones should be observed.
- 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 a flying height at the site of application.

#### **Aerial Operator Precautions**

- Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
- It is desirable that the pilot have communication capabilities at each treatment site at the time of application.
- The pilot (aerial applicator) must wear long-sleeved shirt, long pants, socks and shoes.
- The field crew and the mixer/loaders must wear chemical-resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.
- All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

#### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-866-761-9397 or obtain technical advice from the distributor or your provincial agricultural representative.

#### **TIMING OF APPLICATION**

**BATALIUM™** can be applied post-emergence in all types of spring wheat (including durum wheat) and winter wheat.

Research has demonstrated that optimum wheat yield is obtained by early removal of target weeds prior to tillering of wheat. In post-emergence use, apply **BATALIUM™** to wheat that has a minimum of two leaves to a maximum of four leaves on the main stem, plus two tillers. Application beyond this stage may result in yield losses due to weed competition.

#### **POSTEMERGENCE USE DIRECTIONS IN SPRING, DURUM, AND WINTER WHEAT**

Apply **BATALIUM™** plus a surfactant once per growing season when the majority of wheat has a minimum of two leaves to a maximum of four leaves on the main stem, plus two tillers. Use a registered non-ionic surfactant such as Agral 90, Ag-Surf, etc. at a rate of 0.25 % v/v (0.25 L per 100 L total spray solution).

Do not apply more than 1.16 L/ha of **BATALIUM™** per growing season.

### APPLICATION RATE AND WEEDS CONTROLLED

Apply **BATALIUM™** at **1.16 L/ha** with a non-ionic surfactant at 0.25 % v/v to weeds that are actively growing under ideal environmental conditions.

CROP APPLICATION TIMING		
CROP	GROWTH STAGE	REMARKS
Spring Wheat Durum Wheat Winter Wheat	2 leaf to 6 total leaves	2 leaf to 4 leaves on main stem, plus 2 tillers.

GRASS WEEDS CONTROLLED IN WHEAT			
WEEDS CONTROLLED			
Green foxtail	1 to 6 leaf	Wild oat	1 to 6 leaf
Tame oat (volunteer)	1 to 6 leaf	Japanese brome	1 to 4 leaf
WEEDS SUPPRESSED			
Yellow foxtail	1 to 6 leaf	Barnyard grass	1 to 6 leaf

BROADLEAF WEEDS CONTROLLED IN WHEAT			
WEEDS CONTROLLED			
American nightshade	Up to 4 leaf	Night-flowering catchfly	Up to 4 leaf
Ball mustard	2 – 4 leaf	Pale smartweed	Up to 4 leaf
Bluebur	Up to 4 leaf	Prickly lettuce*	Up to 12 leaf
Canola (volunteer)	2 – 6 leaf	Redroot pigweed	2 to 6 leaf
Cleavers	1 – 4 whorls	Russian thistle	Up to 4 leaf
Cocklebur	Up to 4 leaf	Scentless Chamomile	Up to 4 leaf
Common buckwheat	Up to 8 leaf	Shepherd's purse	2 to 6 leaf
Common groundsel	Up to 8 leaf	Stinkweed	2 to 9 leaf
Common ragweed	Up to 8 leaf		
Cow cockle	Up to 4 leaf	Sunflower (volunteer)	Up to 4 leaf
Flax (volunteer)	1 to 12 cm	Tartary buckwheat	Up to 8 leaf
Flixweed	Up to 4 leaf	Velvet leaf	Up to 4 leaf (before 8 cm high)
Green smartweed	2 to 6 leaf	Wild buckwheat	Up to 8 leaf
		Wild mustard	2 to 6 leaf
Kochia**	Up to 5 cm	Wild tomato	Up to 4 leaf

Lady's-thumb	Up to 4 leaf	Wormseed mustard	Up to 8 leaf
Lamb's quarters	Up to 8 leaf		
<b>WEEDS SUPPRESSED</b>			
Canada thistle	Top growth	Perennial sow-thistle	Top growth
		Stork's-bill	1 to 8 leaf
*Suppression only in winter wheat only			
**Including group 2, 4, and 9 resistant biotypes			

For best results apply to wheat and weeds that are actively growing in the stages listed. Wheat exposed to water-logged or saturated soils, or temperature extremes such as heat or cold, or drought, or low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control also may be reduced by these same conditions, or if heavy weed infestations exist, or when applications are made outside the application recommendations.

### TANK-MIXES

For additional control of hemp-nettle, **BATALIUM™** may be mixed with MCPA Ester 600 at 275 g ae/ha. When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

<b>APPROVED TANK-MIX PARTNERS IN WHEAT</b>			
<b>TANK-MIX</b>	<b>RATE</b>	<b>WEED CONTROLLED</b>	<b>REMARKS</b>
MCPA Ester	458 mL/ha MCPA Ester 600 (275 g ae/ha)	Hemp-nettle	Up to 4 leaf

### MIXING INSTRUCTIONS

1. Ensure the spray tank is clean. In-line strainers and nozzle screens should be clean and 50-mesh or coarser.
2. Fill the spray tank 1/3 to 1/2 full with clean water and begin agitation or bypass.
3. Add the appropriate **BATALIUM™** rate directly to the spray tank. Maintain sufficient agitation during both mixing and application.
4. Add the broadleaf weed herbicide.
5. Add the surfactant, then complete filling tank with balance of water needed.

### BUFFER ZONES

Spot treatments using hand-held equipment do not require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas, and

shrublands), freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Buffer zones for the protection of terrestrial and aquatic habitats with spray application using coarse droplet size:

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:					
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths :		Terrestrial Habitats	
		Less than 1m	Greater than 1m	Less than 1m	Greater than 1m		
<b>Field sprayer</b>	Spring wheat, durum wheat, winter wheat, spring barley, oats, seedling and established fescue and forage grasses for seed, canary seed, foxtail millet	1	0	1	1	1	
<b>Aerial</b>	Wheat, barley, oats, canary seed	Fixed wing	4	0	1	1	70
		Rotary wing	1	0	1	1	55

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank-mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the [Buffer Zone Calculator](#) on the Pesticides portion of the Canada.ca website.

## SPRAYING INSTRUCTIONS

### Ground Application

Apply in a spray volume of 50-100 L/ha (22.5-45 L/acre or 5-10 gallons/acre) at 207-345 kPa (30-50 PSI) pressure to ensure proper weed coverage.

Flat fan nozzles of 80° or 110° are recommended for optimum coverage. Do not use floodjet nozzle or control droplet application equipment. Nozzles may be oriented 45° forward to enhance crop penetration and to give better weed coverage.

### Aerial Application

Unless otherwise specified in the tank-mix partner section of this label, apply in a spray volume no less than 28 L/ha (11 L/acre or 3 gallons/acre) at no less than 300 kPa pressure to ensure proper weed coverage.

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 nozzles distribution along the spray boom length **MUST NOT** exceed 65 % of the wing or rotorspan.

## SPRAYER CLEAN-UP

1. Drain the tank and thoroughly rinse spray tank, boom and hoses with clean water. Pay particular attention to flushing out any visible deposits.
2. Fill the tank with clean water and 1 % v/v (1 L/100 L) household ammonia. Flush the hoses, boom and nozzles with the cleaning solution. Circulate for at least 15 minutes. Flush hoses, booms and nozzles once more, then drain the tank;
3. Clean nozzles and screens in a separate container using ammonia and water;
4. Repeat #2;
5. Rinse tank, booms and hoses with clean water.
  - Do not clean sprayer near desirable vegetation, wells, or other water sources;
  - Dispose of all rinsings in accordance with provincial regulations;
  - Check tank-mix partner label for any additional clean-up procedures.

## ROTATIONAL CROPS

The following crops may be planted 11 months after an application of **BATALIUM™**.

Soil Zones and Rotational Crops			
Gray-Wooded	Black	Dark Brown	Brown
Spring wheat Barley Canola Field peas*	Spring wheat Barley Canola Field peas* Field bean Flax Durum wheat Soybean Sunflower	Spring wheat Barley Canola Field peas* Flax Durum wheat Soybean Sunflower	Spring wheat
<p>*Field peas may be grown the year following <b>BATALIUM™</b> application providing the following are all met:</p> <ol style="list-style-type: none"> <li>1. Soil pH must be below 7.5,</li> <li>2. Organic matter must be above 4 %, and</li> <li>3. Precipitation must be equal to or above 10-year average (minimum 100 mm within 60 days of application in year of application).</li> </ol>			

Or, fields can be summerfallowed.

As **BATALIUM™** is degraded by soil microbes, environmental conditions that decrease microbial activity must be considered when making rotational cropping decisions. These environmental conditions include prolonged drought and/or cold temperatures within the following cropping season, as well as soils with both low OM (less than 2 %) and high pH (greater than 7.5). If these conditions exist, a soil bioassay may be necessary to ensure rotational crop safety.

Do not plant crops other than those listed above in the year following application of **BATALIUM™** on wheat.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **BATALIUM™** is a Group 2 Herbicide, Group 4 Herbicide, and Group 6 Herbicide. Any weed population may contain or develop plants naturally

resistant to **BATALIUM™** and other Group 2, 4, and 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:

- Where possible, rotate the use of **BATALIUM™** or other Group 2, 4 and 6 herbicides within a growing season or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank-mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- 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 seedling rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other chemical control practices.
- 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.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Arysta LifeScience North America, LLC at 1-866-761-9397.

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