

GROUPS	1	2	HERBICIDES
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## **BROADBAND® Herbicide**

HERBICIDE

EMULSIFIABLE CONCENTRATE

COMMERCIAL - AGRICULTURAL

A post emergence herbicide for control or suppression of annual grasses and broadleaf weeds in Barley and Spring Wheat, excluding durum.

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY.

### **ACTIVE INGREDIENTS:**

Pinoxaden.....	92.7 g/L
Florasulam.....	7.73 g/L

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

**WARNING: EYE IRRITANT**

NET CONTENTS: **1 L - Bulk**

REGISTRATION NO.: **29138**  
PEST CONTROL PRODUCTS ACT

**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, ON N1G 4Z3  
Telephone: 1-877-964-3682

Label

## 1.0 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.

## 2.0 FIRST AID

**IN CASE OF POISONING**, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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.

## 3.0 TOXICOLOGICAL INFORMATION

BROADBAND Herbicide contains materials that may cause severe pneumonitis if aspirated. Treat symptomatically for ingestion and/or skin and eye contact. This tank mix contains PETROLEUM DISTILLATES. DO NOT INDUCE VOMITING.

## 4.0 PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN.

Causes eye irritation. DO NOT get in eyes. DO NOT get in eyes or on skin. Avoid contact with clothing.

**Restricted Entry Interval (REI): DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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 apply by air. Ground application only.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

## **5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

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

Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling. Handle and apply only as recommended on this label.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

Wear freshly laundered clothes daily. Do not wear contaminated shoes.

Do not eat, drink or smoke while mixing, loading or during application.

## **6.0 ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray 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 filter strip between the treated area and the edge of the water body.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product contains aromatic petroleum distillates, which are toxic to aquatic organisms.

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## 7.0 STORAGE

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorised persons and animals. Store this product away from food or feed.

## 8.0 DISPOSAL

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.

### **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.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### **For Refillable Containers**

For disposal, this empty 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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

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Pamphlet

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Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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Do not eat, drink or smoke while mixing, loading or during application.

## **6.0 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 filter strip between the treated area and the edge of the water body.

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## 9.0 PRODUCT INFORMATION

BROADBAND Herbicide is a systemic, post-emergence herbicide for the selective control of: wild oats, green foxtail, yellow foxtail, volunteer oats, barnyard grass, volunteer canary seed and proso millet as well as hard-to-kill annual broadleaf weeds such as cleavers and chickweed in Spring Wheat (excluding durum) and Barley, not underseeded with legumes or canola in the prairie provinces and the interior of British Columbia (including the Peace River Region).

BROADBAND Herbicide is absorbed by the leaves and is rapidly translocated to the growing points of leaves and stems of target weeds. BROADBAND Herbicide must be applied early post emergence, to the main flush of actively growing annual broadleaf and grass weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of BROADBAND Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled and re-growth may occur.

Thorough coverage of the plants is essential for consistent control. BROADBAND Herbicide stops growth of susceptible weeds rapidly. Actively growing susceptible grass and broadleaf

weeds stop growing within 48 hours of treatment, however, typical symptoms (discolouration) of dying broadleaf weeds may not be noticeable for 1 to 2 weeks after application. Depending on species, growing conditions and crop competition, leaves and growing points of annual grass weeds turn yellow within one to three weeks after application. Further colour changes and loss of vigour will be observed, followed by a browning and control three to five weeks after application. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

## 10.0 DIRECTIONS FOR USE

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 may be tank mixed with a fertilizer, a supplement, or 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 Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada 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.

Always read and follow label directions including WALES mixing order.

### 10.1 Ground Application

Field sprayer application: **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) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

#### 10.1.1 Mixing Instructions

1. Clean spray tank and half fill with clean water. Start agitation or bypass system.

2. If a broadleaf herbicide is to be used, add the product FIRST prior to adding BROADBAND Herbicide and agitate for 2-3 minutes.
3. Add correct amount of BROADBAND Herbicide.
4. Agitate for 2-3 minutes.
5. Add correct amount of ADIGOR Adjuvant.
6. Agitate for 1-2 minutes before adding remainder of water and then maintain constant agitation.
7. After any break in spraying operations, agitate thoroughly before spraying again.
8. **Use the spray suspension as soon as it is prepared.**
9. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g., forages, legumes, and canola).
10. Follow sprayer clean-up directions.

### 10.1.2 Spraying Instructions

1. BROADBAND Herbicide Tank Mix is for ground application only. DO NOT APPLY BY AIRCRAFT.
2. Water Volume: 50 to 100 litres per hectare.
3. Spray Nozzles: 80° or 110° flat fan nozzles are recommended for optimal spray coverage. Use 50 mesh nozzle screens. Do not use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
4. Pressure: 275 - 310 kPa.
5. Apply uniformly at 6 - 8 km/hr and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from an over application.

### 10.1.3 Equipment Clean-Up

- Prior to using BROADBAND Herbicide, ensure that the spray tank, lines and filter are thoroughly clean.
- Thoroughly clean application equipment immediately after spraying BROADBAND Herbicide. All traces of BROADBAND Herbicide must be removed before equipment can be used on crops other than Wheat and Barley to avoid subsequent injury to other crops.
- When using tank mixes, consult the tank-mix partner label for additional cleanup instructions.
- The following recommendations are provided:
  1. Drain any remaining spray mixture from the application equipment immediately after spraying.
  2. Hose down the interior surface of the tank while filling the tank ½ full of water.
  3. Add household ammonia (containing a minimum of 3% ammonia) at the rate of 3.78 L per 378 L of water. Re-circulate for 5 minutes and spray out part of this mixture for 5 minutes through the boom. Drain tank.
  4. Remove all spray nozzles and screens and wash separately with an ammonia solution.
  5. If the spray equipment will be used for pesticide application to a crop that is sensitive to BROADBAND Herbicide, step 1-4 should be repeated. Exterior surface of spray equipment should also be thoroughly cleaned.
  6. Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain the tank completely.
  7. **Do not** clean the sprayer near desirable vegetation, wells or other water sources.
  8. Dispose of all rinsings in accordance with provincial regulations.

## 10.2 Spray Buffer Zones

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

The spray 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) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Buffer zones (meters) required for the protection of:			
		Freshwater habitats of depths			Terrestrial habitat
		Less than 1 m	1 – 3 m	Greater than 3 m	
Field sprayer	Spring wheat* and barley	5	5	5	30

\* Excluding durum

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.

The spray buffer zones for this product that are larger than 1 m can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticide portion of the Canada.ca web site.

## 10.3 Rotational Crop Information

For fields treated with BROADBAND Herbicide, no crop may be seeded until the following year. There are no crop rotation limitations the year following application of BROADBAND Herbicide.

## 11.0 CROP USE DIRECTIONS

### 11.1 Crops

BROADBAND Herbicide can be used on all varieties of Spring Wheat (excluding durum) and Barley.

One application per year is permitted.

Observe minimum interval to harvest of 60 days after treatment for grain and straw and of 30 days after treatment for hay. Observe a minimum of 7 days before grazing livestock on crops treated with BROADBAND Herbicide.

Do not apply on any crop other than Spring Wheat (excluding durum) or Barley, as crop damage will result. Do not allow spray to drift to adjacent fields seeded to crops other than Spring Wheat (excluding durum) or Barley. Do not treat Spring Wheat (excluding durum) or Barley under seeded to forages, legumes, or canola. Do not apply BROADBAND Herbicide on highly

sensitive crops such as: Tame Oats, Red Millet, Crown Millet and Canary Seed.

## 11.2 Timing of Application

CROP / WEEDS*	GROWTH STAGE** (ZADOK or BBCH)
Spring Wheat (excluding durum) Barley	1 leaf to flag leaf stage (11, 20 to 37)
Wild Oats Green and Yellow Foxtail Barnyard Grass Volunteer Oats Volunteer Canary Seed Proso Millet	1 – 6 leaf, prior to 4th tiller (11, 20 to 16, 23)
Broadleaf Weeds	1 – 6 leaf stage

\* When tank-mixing with a broadleaf herbicide, refer to the label of the broadleaf partner prior to use.

\*\* Do not apply past the flag leaf stage.

## 11.3 Use Rate

Apply a uniform spray containing **650 mL/ha** of BROADBAND Herbicide + **700 mL/ha** of ADIGOR® Adjuvant in a minimum of 50 L up to 100 L of water per hectare or the water volume as specified on the broadleaf herbicide partner label to thoroughly cover target weeds.

## 11.4 Weeds Controlled or Suppressed

**For broad spectrum weed control of annual grasses and broadleaf weeds**, BROADBAND Herbicide can be applied alone or can be tank-mixed with broadleaf herbicides as described below.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions 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.

## 11.5 Tank Mixtures with Broadleaf Herbicides

BROADBAND Herbicide can be tank-mixed with either MCPA Ester 500 LV Liquid Herbicide or MCPA Ester 600 Liquid Herbicide or Curtail® M Herbicide to provide additional broad spectrum weed control in Spring Wheat (excluding durum) and Barley. See the following table which lists grass and broadleaf weeds controlled by BROADBAND Herbicide applied alone and in tank-mix with MCPA Ester 500 LV Liquid Herbicide or MCPA Ester 600 Liquid Herbicide or Curtail M Herbicide.

**11.6 Weeds Controlled by BROADBAND Herbicide Alone and in Tank Mixtures**

	<b>BROADBAND Herbicide + ADIGOR Adjuvant (650 mL/ha + 700 mL/ha)</b>	<b>+ MCPA Ester LV 500 Liquid Herbicide (700 mL/ha) OR MCPA Ester 600 Liquid Herbicide (600 mL/ha)</b>	<b>+ Curtail M Herbicide (1.5 L/ha)</b>
<b>Grass Weeds</b>			
Wild Oats	■	■	■
Green Foxtail	■	■	■
Yellow Foxtail	■	■	■
Volunteer Oats	■	■	■
Volunteer Canary Seed	■	■	■
Proso Millet	■	■	■
Barnyard Grass	■	■	■
<b>Broadleaved Weeds</b>			
Volunteer Canola*	●*	●	●
Common Chickweed	●	●	●
Cleavers	●	●	●
Smartweed	●	●	●
Lady's Thumb	●	●	●
Stinkweed	●	●	●
Wild Buckwheat	●	●	●
Wild Mustard	●	●	●
Shepherd's Purse	●	●	●
Lamb's Quarters		●	●
Ball Mustard		●	●
Common Ragweed		●	●
Hempnettle	/	●***	●
Redroot Pigweed	/	●***	●
Canada Thistle		○***	●
Annual Sowthistle	/	/	●
Stork's bill		/	●
Flixweed		△	●
Burdock		△	△
Russian Pigweed		△	△
Prickly lettuce		△	△
Annual Sunflower		△	△
Perennial Sowthistle**	/	/	△
Dandelion (seedlings and over wintered rosettes <15 cm)		/***	/
Plantain		○	○

\* Including herbicide-tolerant canola varieties; Except Clearfield Canola

\*\* Applications made at advanced leaf stages will reduce product effectiveness.

\*\*\* Optimum control can be achieved with the addition of an extra 140 mL/ha to the regular recommended rate of 700 mL/ha (total of 840 mL/ha) of MCPA Ester 500 LV Liquid Herbicide. (If applying a formulation of MCPA Ester 600 Liquid Herbicide add an extra 100 mL/ha to regular rate of 600 mL/ha (total of 700 mL/ha).

**Key to Symbols:**

■	1-6 leaf, prior to 4th tiller
●	1-6 leaf stage
△	1-4 leaf stage
/	Suppression
○	Top growth control

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## **11.7 Tank Mix with TILT® 250E Fungicide in Spring Wheat (excluding durum) and Barley**

BROADBAND Herbicide Tank Mix can be tank-mixed TILT 250E Fungicide for control of diseases listed on the TILT 250E Fungicide label, in addition to grassy weeds. Consult the TILT 250E Fungicide label for a list of diseases controlled, rates, timing, recropping restrictions, grazing interval restrictions, recommendations for specific diseases, directions for use and precautions and follow the more restrictive label.

### **NOTES:**

Perennial grasses such as quack grass will not be controlled.

For optimum results, apply BROADBAND Herbicide to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application of BROADBAND Herbicide will not be controlled.

When tank-mixing, always add the broadleaf herbicide(s) or fungicide to the spray tank first; followed by BROADBAND Herbicide with ADIGOR Adjuvant added last.

Weed control following application of BROADBAND Herbicide alone or in combination with broadleaf weed herbicides, can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding or prolonged cool temperatures. Grass or dicot weed escapes or re-growth may occur if application is made during prolonged stress conditions. Optimum weed control will be obtained if application of BROADBAND Herbicide is delayed until the stress conditions have ended and weeds are once again actively growing.

BROADBAND Herbicide alone can be used one hour before rainfall.

Do not apply to crop that is stressed by conditions such as frost, low fertility, drought, flooding, disease or insect damage as crop injury may result.

Do not apply to crops underseeded with forages, legumes or canola.

Temporary crop injury may occur with tank-mixes under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture levels or extreme temperatures.

## **12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, BROADBAND Herbicide is a Group 1 and 2 herbicide. Any weed population may contain or develop plants naturally resistant to BROADBAND Herbicide and other Group 1 and 2 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 BROADBAND Herbicide or other Group 1 and 2 herbicides

within a growing season (sequence) 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 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.

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 company representatives at 1-877-964-3682 or at [www.syngenta.ca](http://www.syngenta.ca).