

GROUP	1	HERBICIDE
GROUP	4	HERBICIDE

## AXIAL® XTREME Herbicide

EMULSIFIABLE CONCENTRATE

COMMERCIAL - AGRICULTURAL

A post emergence herbicide for control of kochia, cleavers, wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed and proso millet and suppression of wild buckwheat and stork's bill in spring wheat and barley.

FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA

### ACTIVE INGREDIENTS:

Pinoxaden..... 50 g/L  
Fluroxypyr (present as 1-methylheptyl ester) ..... 87.5 g/L

Contains Cloquintocet-mexyl at 12.5 g/L as a safener

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

**WARNING: EYE AND SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER  
THIS PRODUCT CONTAINS PETROLEUM DISTILLATES**

REGISTRATION NO.: **30391**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L - Bulk**

**Syngenta Canada Inc.**  
140 Research Lane, Research Park,  
Guelph, Ontario 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 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 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.

## 3.0 TOXICOLOGICAL INFORMATION

AXIAL® XTREME Herbicide contains materials that may cause severe pneumonitis if aspirated. Treat symptomatically for ingestion and/or skin and eye contact. THIS PRODUCT CONTAINS PETROLEUM DISTILLATES. VOMITING MAY CAUSE ASPIRATION PNEUMONIA.

## 4.0 PRECAUTIONS

- KEEP OUT OF REACH OF CHILDREN.
- Causes eye and skin irritation. DO NOT get in eyes or on skin. Do not wear contact lenses when using.
- Do not eat, drink or smoke while mixing, loading or during application.
- **Restricted-Entry Intervals (REI): DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.
- **DO NOT** apply by air.
- **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 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.

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)**

Avoid contact with clothing.

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Coveralls, chemical-resistant footwear and gloves are not required during application within a closed cab.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

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

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.

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, do not eat, drink or use tobacco (including smoking).

## **6.0 ENVIRONMENTAL PRECAUTIONS**

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

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

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.

This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms.

## **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. To prevent contamination, 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 cleanup of spills.

### **FOR DISPOSAL OF PLASTIC JUGS:**

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.
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### **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 reuse this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
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Pamphlet

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To reduce runoff from treated areas into aquatic habitats avoid application to areas with a

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CALL 1-800-327-8633 (FASTMED)***

## **9.0 PRODUCT INFORMATION**

AXIAL XTREME Herbicide is a systemic, post-emergence herbicide for the selective control of kochia, cleavers, wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed and proso millet and suppression of wild buckwheat and stork's bill in spring wheat and barley in the prairie provinces and the Interior of British Columbia.

AXIAL XTREME Herbicide is absorbed by the leaves and is rapidly translocated to the growing points of leaves and stems, affecting both exposed and underground plant tissue. Thorough

coverage of the plants is essential for consistent control. Actively growing susceptible grasses stop growing within 48 hours of treatment. Depending on species, growing conditions and crop competition, leaves and growing points 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.

AXIAL XTREME Herbicide can be tank-mixed with a range of broadleaf herbicides to provide a broader spectrum of weed control in spring wheat and barley. See section entitled "TANK MIXES WITH BROADLEAF WEED HERBICIDES AND FUNGICIDES" and refer to the appropriate tank mix section.

## 10.0 DIRECTIONS FOR USE

### 10.1 General Information

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.

CROPS: spring wheat and barley

AXIAL XTREME Herbicide can be used on all varieties of spring wheat and barley.

One application per year is permitted.

**DO NOT** apply by air.

Observe a 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 AXIAL XTREME Herbicide.

Do not apply on any crop other than spring wheat or barley, as crop damage will result. Do not allow spray to drift to adjacent fields seeded to crops other than spring wheat or barley. Do not treat spring wheat or barley under-seeded to forages. Do not apply AXIAL XTREME Herbicide on highly sensitive crops such as: tame oats, proso millet, red millet, crown millet or canary seed.

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.

## 10.2 Ground Application

### 10.2.1 General Precautions

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) coarse classification. Boom height must be 60 cm or less above the crop or ground.

### 10.2.2 Mixing Instructions

1. Clean spray tank and half fill with clean water. Start agitation or bypass system.
2. If a broadleaf herbicide or fungicide is to be used, add the product **FIRST** prior to adding AXIAL XTREME Herbicide and agitate for 2-3 minutes.
3. Add correct amount of AXIAL XTREME Herbicide.
4. Agitate for 2-3 minutes before adding remainder of water and then maintain constant agitation.
5. After any break in spraying operations, agitate thoroughly before spraying again.
6. **Use the spray suspension as soon as it is prepared.**
7. Follow sprayer clean-up directions.

### 10.2.3 Spraying Instructions

1. Water Volume: 50 to 100 litres per hectare.
2. 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.
3. Pressure: 275 - 310 kPa.
4. Apply uniformly at 6 - 8 km/hr and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from an over application.

### 10.2.4 Equipment Clean-Up

#### Clean Up Before Spraying:

- Prior to using AXIAL XTREME Herbicide, ensure that the spray tank, lines and filter are thoroughly clean.

#### Clean Up After Spraying:

- Thoroughly clean application equipment immediately after spraying. To avoid subsequent injury to other crops, immediately after spraying and before spraying other crops, thoroughly remove all traces of AXIAL XTREME Herbicide from mixing and spraying equipment.

- When using tank mixes, consult the tank-mix partner label for additional cleanup instructions. The following recommendations are provided:
  - Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **Do not** clean the sprayer near desirable vegetation, wells or other water sources.
  - Remove all nozzles and screens and wash separately.
- Dispose of all rinsings in accordance with provincial regulations. Decontamination (before spraying sensitive crops):
  - Wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent at 500 mL/100 L of water or the powder equivalent at 500 g/100 L and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent use 250 g (or mL)/100 L water. Do not use chlorine based cleaners.

### 10.2.5 Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-87-SYNGENTA (1-877-964-3682) or obtain technical advice from the distributor or your provincial agricultural representative.

### 10.3 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), 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	Spray Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	
Field sprayer	Spring wheat Barley	1	0	1

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 buffer zones for this product can be modified based on weather conditions and spray equipment configuration by access the Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

#### **10.4 Rotational Crop Information**

Fields previously treated with AXIAL XTREME can be seeded the following year to barley, canola, flax, forage grasses, lentils, mustard, oats, peas, rye or wheat or fields can be summerfallowed.

## 11.0 CROP USE DIRECTIONS

**WEEDS CONTROLLED:** kochia, cleavers, wild oats, green foxtail, yellow foxtail, barnyard grass, volunteer oats, volunteer canary seed and proso millet

**WEEDS SUPPRESSED:** wild buckwheat and stork's bill

Perennial grasses such as quack grass will not be controlled.

### 11.1 Rate of Use and Timing of Application

Apply the recommended rate of AXIAL XTREME Herbicide in 50 L to 100 L of water per hectare. When tank-mixing AXIAL XTREME Herbicide with a tank-mix partner, ensure you read the tank-mix partner label for minimum water recommendations.

CROP/WEEDS <sup>1</sup>	GROWTH STAGE <sup>2</sup> (ZADOKS or BBCH)	USE RATE
SPRING WHEAT BARLEY	2 leaf to stem elongation  (12, 20 to 31)	
WILD OATS GREEN FOXTAIL YELLOW FOXTAIL BARNYARD GRASS VOLUNTEER OATS VOLUNTEER CANARY SEED PROSO MILLET	1 – 6 leaf, prior to 4 <sup>th</sup> tiller  (11, 20 to 16 and 23)	1.2 L/ha (0.5 L/ac) AXIAL XTREME Herbicide
KOCHIA	2-8 leaf	
CLEAVERS	1-4 whorls	
WILD BUCKWHEAT <sup>3</sup>	1-4 leaf	
STORK'S BILL <sup>3</sup>	1-6 leaf	

<sup>1</sup> When tank-mixing with a broadleaf herbicide, always refer to the label of the broadleaf partner prior to use.

<sup>2</sup> Do not apply past stem elongation stage.

<sup>3</sup> Suppression only.

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

Weed control following application of AXIAL XTREME 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 escapes or re-tillering may occur if application is made during prolonged stress conditions. Optimum weed control will be obtained if application of AXIAL XTREME Herbicide is delayed until the stress conditions have ended and weeds are once again actively growing.

AXIAL XTREME 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.



## 11.2 Tank Mixes with Broadleaf Weed Herbicides and Fungicides

### For broad spectrum weed control of annual grasses and broadleaf weeds

AXIAL XTREME Herbicide can be tank-mixed with broadleaf herbicides as described in the following table. Consult the label of the tank-mix partner for a list of broadleaf weeds controlled, rates, timing, re-cropping restrictions, grazing interval restrictions, recommendations for specific weeds, directions for use and precautions. AXIAL XTREME Herbicide can also be tank-mixed with TILT<sup>®</sup> 250E Fungicide for suppression or control of diseases in spring wheat and barley listed on the TILT 250E Fungicide label. When tank-mixing always add the broadleaf herbicide(s), insecticide or fungicide to the spray tank first; followed by AXIAL XTREME Herbicide. For the appropriate rate of AXIAL XTREME Herbicide, refer to the 'RATE OF USE AND TIMING OF APPLICATION' section of this label.

Tank-Mix Partner <sup>1</sup>	Product Rates
Refine SG <sup>®</sup> Herbicide <sup>2</sup>	30 g/ha
Refine SG Herbicide + MCPA Ester <sup>3,4</sup>	30 g/ha + 470 - 580 mL/ha <sup>5</sup>
Buctril <sup>®</sup> M <sup>4</sup>	1.0 L/ha
Curtail <sup>®</sup> M Herbicide <sup>4</sup>	1.5 - 2.0 L/ha
Mextrol <sup>®</sup> 450 Liquid Herbicide <sup>4</sup>	1.25 L/ha
MCPA Ester <sup>4</sup>	700 - 920 mL/ha <sup>5</sup>
Infinity <sup>®</sup> Herbicide <sup>6</sup>	0.83 L/ha
Frontline <sup>™</sup> XL Herbicide <sup>6</sup>	1.25 L/ha
TILT 250E Fungicide	250 - 500 mL
<sup>1</sup> Always consult the label of the broadleaf herbicide prior to use.	
<sup>2</sup> Addition of surfactants are not required.	
<sup>3</sup> Suppression only of green foxtail.	
<sup>4</sup> A reduction in barnyard grass control may be observed when AXIAL XTREME Herbicide is tank mixed with these broadleaf herbicides.	
<sup>5</sup> This rate is for MCPA Ester 600 therefore rates must be adjusted accordingly for other concentrations.	
<sup>6</sup> A reduction in green foxtail control may be observed when AXIAL XTREME is tank mixed with these broadleaf herbicides.	

When tank-mixing, always add the broadleaf herbicide(s) to the spray tank first; followed by AXIAL XTREME Herbicide.

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, AXIAL XTREME Herbicide is a Group 1 and Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to AXIAL XTREME Herbicide and other Group 1 and Group 4 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 AXIAL XTREME Herbicide or other Group 1 and Group 4 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 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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