

PRIMEXTRA® II MAGNUM®

HERBICIDE

COMMERCIAL - AGRICULTURAL

Liquid Herbicide for Selective Weed Control in Corn.

ACTIVE INGREDIENTS:

S-Metolachlor* 400 g/L

* And R enantiomer

Atrazine and related triazines 320 g/L

Contains 1,2-benzisothiazolin-3-one at 0.006% OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0002%, 2-methyl-4-isothiazolin-3-one at 0.0000493%, and 2-bromo-2-nitropropane-1,3-diol at 0.00394% as preservatives.

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

CAUTION



POISON

**CAUTION – EYE IRRITANT
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO.: **25730**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **10 L- bulk**

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

LABEL

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.

FIRST AID

IF POISONING IS SUSPECTED, IMMEDIATELY contact a physician or a poison control centre. 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. Have person sip a glass of water if able to swallow. 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 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.

NOTE: This product may cause skin sensitization reactions in certain individuals.

TOXICOLOGICAL INFORMATION

No specific antidote is known. Treat symptomatically. If a large amount has been ingested and emesis is inadequate, lavage stomach. The active ingredients in this product have a high affinity for activated charcoal. Five (5) mg/kg activated charcoal suspension (50 g/400 mL water) can be given to absorb the remaining toxicant. Give a saline laxative and supportive therapy. Skin reactions have been treated with antihistamines and ointments containing an anti-inflammatory agent.

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of vapours or spray mist. During application, cleanup and servicing the sprayer wear chemical-resistant gloves, and coveralls over a long-sleeved shirt and long pants and chemical resistant boots. During mixing and loading, wear a face shield in addition to chemical-resistant gloves, and coveralls over a long-sleeved shirt and long pants and chemical resistant boots.

DO NOT re-enter treated areas within 12 hours of treatment. If required, individuals may re-enter treated areas within 12 hours of treatment for short term tasks not involving hand labour if at least 4 hours have passed since application and long-sleeved shirt, long pants and chemical resistant gloves are worn.

Do not eat, drink or smoke when using product. Wear freshly laundered clothes daily. Wash hands and face before eating, drinking, smoking or using the toilet. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse.

Mixing and loading is not permitted within 30 m from aquatic habitats.

ENVIRONMENTAL PRECAUTIONS

Toxic to non-target terrestrial plants and aquatic organisms. Observe the spray buffer zones and precautionary measures specified under DIRECTIONS FOR USE. USE ONLY ON LABELLED CROPS.

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.

Atrazine is persistent and may carry over. It is recommended that this product not be used in areas treated with any products containing atrazine during the previous season.

SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS

GENERAL INFORMATION:

Use good pesticide practices and apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and parks is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings used for applications.

For the protection of non-target habitats, over-spray or drift to any body of water or other environmentally sensitive habitats must be avoided. The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

GROUND APPLICATION:

USE ONLY ON CORN. Do not apply PRIMEXTRA® II MAGNUM® Herbicide at rates greater than 4.0 L/ha.

Apply atrazine at a maximum of 1.5 kg a.i./ha per year either as a pre- or post-emergent application before corn reaches 30 cm in height. Treatments can be made once or twice per year, but the maximum amount of atrazine used in a year cannot exceed 1.5 kg a.i./ha. Atrazine may be applied alone or as a registered tank mix partner. Refer to the tank mix partners for further instructions. PRIMEXTRA II MAGNUM, when applied at 3 L/ha and 4 L/ha, contributes 1.0 and 1.3 kg a.i./ha of atrazine, respectively.

STORE IN A DRY PLACE.

Bulk sites must be diked around and under the bulk tank with an impermeable non-earthen dike. The dike must be large enough to hold and contain 110 percent of the capacity of the largest tank.

CAUTION: Do not graze or cut corn for fodder before ear emergence. Sufficient data are not available to support such use. Do not harvest sweet corn within 45 days of application. Do not harvest other corn within 80 days of application. Make only one application per season.

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.

STORAGE

Store this product away from food or feed.

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.

CONTAINER 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 REFILLABLE CONTAINERS:

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.

If the container is not being refilled, refer to the section "FOR DISPOSAL OF RECYCLABLE CONTAINERS".

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

MAGNUM® and PRIMEXTRA® are trademarks of a Syngenta Group Company.

GROUP	5	15	HERBICIDES
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DIRECTIONS FOR USE

Do NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. Do NOT apply during periods of dead calm or when winds are gusty. Do not apply this product through any type of irrigation system. Do NOT overspray non-target terrestrial or aquatic habitats.

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.

DO NOT apply using aerial application equipment.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

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 the WALES mixing order.

DO NOT use fertilizer solutions, oils, oil concentrates or surfactants for post-emergence application, as there is danger of liquid fertilizer causing crop injury.

WEEDS CONTROLLED:

Crabgrass (smooth & hairy)	Wild Mustard ¹
Barnyard Grass	Purslane ¹
Foxtail (green, yellow, giant)	Prostrate Pigweed
Witchgrass	Buckwheat
Fall Panicum	Smart Weed ¹
American Nightshade	Ragweed ¹
Lady's-thumb ¹	Redroot Pigweed ¹
Yellow Nutsedge ²	Lamb's-quarters ¹
Eastern Black Nightshade	

¹ Some naturally occurring triazine tolerant biotypes of these weeds may not be controlled by PRIMEXTRA II MAGNUM Herbicide. Refer to specific recommendations in the tank-mix section of this label or consult your local agricultural authority.

² For best results against yellow nutsedge use preplant incorporated.

NOTE: PRIMEXTRA II MAGNUM Herbicide contains benoxacor which has been shown to enhance S-Metolachlor metabolism in corn. This enhanced metabolism can reduce the potential of S-Metolachlor injury to corn seedlings when grown under unfavourable weather conditions such as cool temperatures or water stress.

TIMING OF APPLICATION:

EASTERN CANADA	PRAIRIES
Preplant Surface or Preplant Incorporated or Pre-emergence or Post-emergent (up to 6-leaf corn)	Preplant Incorporated or Pre-emergence if irrigated within 10 days

PREPLANT SURFACE APPLICATIONS:

- For minimum tillage (reduced tillage) and no-till (zero-till) systems in corn.
- Applications may be made up to 30 days before planting.
- To the extent possible, do not move the treated soil out of the row or move untreated soil to the surface during planting or weed control will be diminished.

PREPLANT INCORPORATED APPLICATIONS:

- Immediate incorporation is not necessary.
- Incorporation equipment should include rolling or western harrows.
- On sandy soils, heavy rainfall following incorporated treatment may cause leaching of herbicide.

INCORPORATION INSTRUCTIONS		
TYPE OF EQUIPMENT	MAX. WORKING DEPTH	MINIMUM SPEED
"S" Tine Danish Cultivator	10 cm	10 km/hr
"C" Tine Cultivator with overlapping sweeps	10 cm	10 km/hr
Tandem disc, maximum 18 cm spacing between discs	10 cm	6 km/hr
Power driven Cultivator	5 cm	any
Mulch Master	5 cm	10 km/hr

PRE-EMERGENT APPLICATIONS:

- Apply evenly to a firm lump-free seed bed.
- Rain is required within 10 days or a shallow cultivation or use of a rotary hoe is necessary.

POST-EMERGENT APPLICATION (EASTERN CANADA ONLY):

-Apply when corn is in the spike to 6-leaf stage and **before weeds pass the 2-leaf stage**. Some leaf burn may occur, but yield will not be affected. **DO NOT tank-mix with fluid fertilizers, oils, oil concentrates or surfactants.**

- Use the **PRIMEXTRA II Magnum herbicide plus Liberty® herbicide tank mix only on glufosinate ammonium tolerant corn.**

- Use the **PRIMEXTRA II MAGNUM Herbicide plus glyphosate herbicide tank mix only on glyphosate tolerant corn.**

CAUTION: Do not apply to soils with less than 1% or more than 10% organic matter.

APPLICATION RATES - PRIMEXTRA II MAGNUM HERBICIDE ALONE:

TIMING	WEEDS CONTROLLED	LITRES OF PRIMEXTRA II MAGNUM HERBICIDE PER HECTARE		
		LIGHT WEED INFESTATION	MEDIUM WEED INFESTATION	HEAVY WEED INFESTATION
PPI	Yellow Nutsedge ² Annual Grasses and Broadleaf Weeds	3.0	3.5	4.0
PREPLANT SURFACE ¹ or PRE-EMERGENT	Annual Grasses and Broadleaf Weeds	3.0	3.5	4.0
EARLY POST-EMERGENT (spike to 2-leaf corn)	Annual Grasses and Broadleaf Weeds	3.0	3.5	4.0
POST-EMERGENT (3 to 6-leaf stage) (hybrid, sweet and silage corn only)	Annual Grasses and Broadleaf Weeds	3.0	3.5	4.0

¹ Apply preplant surface applications of PRIMEXTRA II MAGNUM Herbicide alone only when emerged annual weeds are less than 6 cm tall. If emerged annual weeds are taller than 6 cm apply glyphosate-containing herbicide prior to the application of PRIMEXTRA II MAGNUM Herbicide or make an application of a tank mix of PRIMEXTRA II MAGNUM Herbicide plus glyphosate-containing herbicides (see following table). Consult the tank-mix partner label for specific instructions regarding precautions, restrictions, recommended rates and additives.

² Extended periods of dry weather may result in reduced nutsedge control.

Note: For band treatment, a suitable press wheel mounted ahead of the nozzle should be used for levelling the band. Use proportionately less material.

APPLICATION RATES - PRIMEXTRA II MAGNUM HERBICIDE ALONE FOR EARLY SEASON WEED SUPPRESSION ONLY:

TIMING	WEEDS SUPPRESSED	LITRES OF PRIMEXTRA II MAGNUM HERBICIDE PER HECTARE ^{1,2,3}
PPI, PREPLANT SURFACE or PRE-EMERGENT	Annual Grasses and Broadleaf Weeds	2.5

¹ **FIELD CORN ONLY.**

² Will provide suppression only through the critical crop establishment phase and is to be used in a planned weed management program with a post-emergent herbicide treatment. Monitor the species and growth stages of escapes in order to better select a post-emergent herbicide application.

³ Extended periods of dry weather may result in reduced nutsedge control.

PRIMEXTRA II MAGNUM HERBICIDE TANK MIXTURES (EASTERN CANADA ONLY):

TIMING	WEEDS CONTROLLED	RATE PER HECTARE PRIMEXTRA II MAGNUM HERBICIDE	RATE PER HECTARE TANK MIX PARTNER¹
PREPLANT SURFACE or PRE-EMERGENT	Annual Grasses and Broadleaf Weeds, Emerged Annual or Perennial Weeds	3.0 – 4.0 L	+ Registered glyphosate herbicides in glyphosate tolerant corn. Consult the glyphosate product label for proper weed specific rates and precautions ² .
PREPLANT SURFACE or PRE-EMERGENT INTENDED FOR EARLY SEASON WEED SUPPRESSION ONLY^{4,5}	Suppression of Annual Grasses and Broadleaf Weeds, Emerged Annual or Perennial Weeds	2.5 L	+ Registered glyphosate herbicides in glyphosate tolerant corn. Consult the glyphosate product label for proper weed specific rates and precautions ² .
PRE-EMERGENT	Annual Grasses and Broadleaf Weeds including triazine-resistant Broadleaf Weeds	3.0 - 4.0 L	+ Registered dicamba herbicides. Consult the dicamba product label for proper weed specific rates and precautions ³ .
		3.0 - 4.0 L	0.3 L CALLISTO [®] 480SC Herbicide
EARLY POST-EMERGENT (up to 2-leaf corn only)	Annual Grasses and Broadleaf Weeds including triazine-resistant Broadleaf Weeds		
		3.0 – 4.0 L	+ Registered dicamba herbicides. Consult the dicamba product label for proper weed specific rates and precautions ³ .
		3.0 – 4.0 L	0.3 L CALLISTO 480SC Herbicide ⁴
POST-EMERGENT (3 to 5-leaf corn) (hybrid and silage corn only)	Annual Grasses and Broadleaf Weeds including triazine-resistant Broadleaf Weeds	3.0 - 4.0 L	+ Registered dicamba herbicides. Consult the dicamba product label for proper weed specific rates and precautions ³ .
POST-EMERGENT when used ONLY on glufosinate ammonium tolerant corn (e.g. Liberty Link [®] hybrids). Apply up to 6-leaf corn	Annual Grasses and Broadleaf Weeds including triazine-resistant broadleaf weeds	3.0 - 4.0 L	1.5 – 2 L Liberty 200SN Herbicide ⁶

TIMING	WEEDS CONTROLLED	RATE PER HECTARE PRIMEXTRA II MAGNUM HERBICIDE	RATE PER HECTARE TANK MIX PARTNER ¹
POST-EMERGENT when used ONLY on glyphosate tolerant corn Apply up to and including 6-leaf corn	Annual Grasses and Broadleaf Weeds, Emerged Annual or Perennial Weeds	2.5 L	Registered glyphosate herbicides in glyphosate tolerant corn. Consult the glyphosate product label for proper weed specific rates and precautions ² .

1. Consult the label of the product to be tank mixed with PRIMEXTRA II MAGNUM Herbicide for specific instructions regarding rotational crops; use rates under various conditions and rotational crops, grazing or other restrictions.
2. A tank mix with a glyphosate-containing product requires the use of a non-ionic surfactant. Refer to the label of the tankmix partner and the surfactant for the specific mixing instructions. (See 'MIXING AND SPRAYING INSTRUCTIONS').
3. **DO NOT USE THESE TANK MIXES ON SEED CORN, SWEET CORN OR POPCORN.**
4. **FIELD CORN ONLY.**
5. Will provide suppression only through the critical crop establishment phase and is to be used in a planned weed management program with a post-emergent herbicide treatment. Monitor the species and growth stages of escapes in order to better select a post-emergence herbicide application.
6. Use of this tank mix will provide control of the following emerged weeds: Barnyard Grass, Buckwheat, Cocklebur, Crabgrass (smooth & hairy), Eastern Black Nightshade, Fall Panicum, Foxtail (green, yellow, giant), Lady's-thumb, Lamb's-quarters, Proso Millet, Ragweed, Redroot Pigweed, Wild Mustard, Witchgrass, and Velvetleaf.

APPLICATION IN LIQUID FERTILIZERS:

Nitrogen solutions or complete liquid fertilizers may replace water as a carrier for preplant incorporated or pre-emergence application of PRIMEXTRA II MAGNUM Herbicide in corn. Do not use fertilizer solutions for post-emergence application, as there is danger of liquid fertilizer causing crop injury. Always predetermine the compatibility of PRIMEXTRA II MAGNUM Herbicide tank mixes with your liquid fertilizer carrier by mixing small proportional quantities in advance.

SPRAY BUFFER ZONES:

The spray buffer zones specified in the table below are required between the downwind point of direct application and the closest edge of sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and estuarine/marine) and sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands, and shrublands).

Method of application	Spray buffer zone required for the protection of:	
	Terrestrial habitat (m)	Freshwater habitat (m)
Field sprayer*	10	10

*For field sprayer application, spray buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the canopy, the labeled spray buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the canopy, the labeled spray buffer zones can be reduced by 30%.

MIXING AND SPRAYING INSTRUCTIONS:

Protect sprayer operators from drift or mist. Additional information on spray drift management for GROUND APPLICATIONS is provided in the section “SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS”. When low volumes of spray are applied, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your local agricultural authorities for specific use information.

- . Spray Pressure - 200 - 300 kPa
- . Spray Volume/hectare - minimum 150 litres
- . Use 16 mesh suction screens, 50 mesh screens elsewhere on sprayer.

Where possible use a nurse tank to fill your spray tank. Spray equipment should be thoroughly flushed with clean water before mixing PRIMEXTRA II MAGNUM Herbicide. Refer to the label of the tank mix partner and the surfactant for the specific mixing instructions.

1. **Read and strictly follow the precautions and use directions on the label of the broadleaf weed herbicide to be used.**
2. **Rates of use and timing of application should be as indicated on each product label in the tank mix.**
3. Timing of the application to grass weeds should coincide with the optimum treatment stage of both the grass and broadleaf weeds as indicated on each product label or else control may be lessened.
4. Ensure that the sprayer interior is clean, then fill the spray tank with ½ the required amount of water and engage gentle agitation.
5. Add any WG or DF formulation mix partners and agitate to ensure complete mixing.
6. Add the required amount of PRIMEXTRA II MAGNUM Herbicide and agitate for 2 to 3 minutes. Then any additional SC or SE formulation mix partners and continue agitation for 2 to 3 minutes.
7. Add any EC formulation mix partners and agitate to ensure complete mixing.
8. Fill the tank to ¾ the required amount of water.
9. Add any solution (SN or SL) formulation mix partners and agitate to ensure complete mixing.
10. Add the adjuvant as directed in the crop use directions section.
11. Finish filling the sprayer with water, maintaining good agitation.
12. After any break in spraying operations, agitate thoroughly before spraying again.
13. Spray the pesticide suspension the same day as mixing.
14. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

When using chemical handling equipment to fill the sprayer, the following additional recommendations apply:

- WG and DF formulations are preferentially batch mixed.
- SC, SN, and SL formulations may be inducted or batch mixed.
- EC formulations are preferentially batch mixed.

WARNING:

Do not plant any crop other than corn in the same year on land treated with PRIMEXTRA II MAGNUM Herbicide as injury may occur. The following year there is virtually no hazard to soybeans, white beans, corn, oats or barley (not underseeded to a legume) in Eastern Canada. Moldboard plough and till soil thoroughly before planting these rotational crops. In the Prairie Provinces, corn must be planted the year following application. However, when the rotational crop is subjected to stress conditions, e.g. abnormally hot, dry weather, preceded by extended periods of dry weather the previous season, injury may occur.

NOTICE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada 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.

FIELD CORN - CONTROL OF TALL WATERHEMP:

TIMING	RATE PER HECTARE PRIMEXTRA II MAGNUM HERBICIDE	REMARKS
Pre-emergent	4.0 L	Make only one application per year. Apply in a minimum of 150 L water/ha. Apply by ground equipment only. Some naturally occurring triazine tolerant biotypes of these weeds may not be controlled by PRIMEXTRA II MAGNUM Herbicide. Refer to specific recommendations in tank-mix section of this label or consult your local agricultural authority. Pre-emergent to the field corn crop and tall waterhemp (for Prairies, treatment must be irrigated within 10 days).

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management PRIMEXTRA II MAGNUM Herbicide is both a Group 5 and a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to PRIMEXTRA II MAGNUM Herbicide and other Group 5 and/or Group 15 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 PRIMEXTRA II MAGNUM Herbicide or other Group 5 and/or 15 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 treated 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 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 the specific crops and weed biotypes.

For further information and to report suspected resistance, contact Syngenta Canada Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.