

PRIMEXTRA® II MAGNUM® Agricultural Herbicide

HERBICIDE

SUSPENSION

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 0.005% as a preservative OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0002%, 2-methyl-4-isothiazolin-3-one at 0.00005%, and 2-bromo-2-nitropropane-1,3-diol at 0.004% as preservatives.

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

REGISTRATION NO.: **29358**
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

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.

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 (50g/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 REACH OF CHILDREN. May be harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of vapours or spray mist. **NOTE:** This product may cause skin sensitization reactions in certain individuals.

During application, wear chemical-resistant gloves and coveralls over a long-sleeved shirt and long pants. During mixing and loading, wear a face shield in addition to chemical-resistant gloves, and coveralls over a long-sleeved shirt and long pants.

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.

ENVIRONMENTAL PRECAUTIONS

Toxic to non-target terrestrial plants and aquatic organisms. Observe the buffer zones and precautionary measures specified under Directions for Use.

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

The use of this chemical may result in contamination of ground water particularly in areas where soils are permeable (e.g. sand, loamy sand and sandy loam soils) and/or the depth of the water table is shallow.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil and poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as clay).

Avoid applying this product when heavy rain is forecast.

Contamination of aquatic area as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

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® Agricultural Herbicide at rates greater than 4.0 L/ha.

Apply atrazine at a maximum of 1.5 kg ai/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 ai/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 Agricultural Herbicide, when applied at 3 L/ha and 4 L/ha, contributes 1.0 and 1.3 kg ai/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.

DECONTAMINATION AND 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 DISPOSAL OF 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.
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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

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.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

DO NOT APPLY BY AIR.

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 Agricultural Herbicide. Refer to specific recommendations in 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 Agricultural 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 Agricultural Herbicide plus Liberty® herbicide tank mix only on glufosinate ammonium tolerant corn.**

- Use the **PRIMEXTRA II MAGNUM Agricultural 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 Agricultural Herbicide ALONE:

TIMING	WEEDS CONTROLLED	LITRES OF PRIMEXTRA II MAGNUM AGRICULTURAL 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 Agricultural Herbicide alone only when emerged annual weeds are less than 6 cm tall. If emerged annual weeds are taller than 6 cm apply a glyphosate-containing herbicide prior to the application of PRIMEXTRA II MAGNUM Agricultural Herbicide or make an application of a tank mix of PRIMEXTRA II MAGNUM Agricultural Herbicide plus a glyphosate-containing herbicide (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 AGRICULTURAL HERBICIDE ALONE FOR EARLY SEASON WEED SUPPRESSION ONLY:

TIMING	WEEDS SUPPRESSED	LITRES OF PRIMEXTRA II MAGNUM AGRICULTURAL 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 AGRICULTURAL HERBICIDE TANK MIXTURES (EASTERN CANADA ONLY):

TIMING	WEEDS CONTROLLED	RATE PER HECTARE PRIMEXTRA II MAGNUM AGRICULTURAL HERBICIDE	RATE PER HECTARE TANK MIX PARTNER ¹
PREPLANT SURFACE Or PRE-EMERGENT	Annual Grasses and Broadleaf Weeds, Emerged Annual or Perennial Weeds	3.0 – 4.0 L	1.7 – 1.8 L TOUCHDOWN TOTAL ^{2,3} or or 1.7 – 1.8 L TRAXION ^{2,3} or 2.35 - 2.5 L Roundup Original ^{2,3} or 2.35-2.5 L Roundup Transorb ^{2,3} or 1.23-1.30 kg Roundup Dry [®] (68.5% glyphosate) ^{2,3} or 2.35-2.5 L Glyfos ^{2,3} or 2.35-2.5 L Credit ^{2,3} or 2.35-2.5 L Vantage ^{2,3} or 2.35-2.5 L Vantage Plus ^{2,3} or 2.35-2.5 L Renegade ^{2,3}
PREPLANT SURFACE Or PRE-EMERGENT INTENDED FOR EARLY SEASON WEED SUPPRESSION ONLY^{5,6}	Suppression of Annual Grasses and Broadleaf Weeds, Emerged Annual or Perennial Weeds	2.5 L	1.7 – 1.8 L TOUCHDOWN TOTAL ^{2,3} or 1.7 – 1.8 L TRAXION ^{2,3} or 1.57-1.67 L Roundup Weathermax ^{2,3} or 2.35 - 2.5 L Roundup Original ^{2,3} or 2.35-2.5 L Roundup Transorb ^{2,3} or 1.23-1.30 kg Roundup Dry (68.5% glyphosate) ^{2,3} or 2.35-2.5 L Glyfos ^{2,3} or 2.35-2.5 L Credit ^{2,3} or 2.35-2.5 L Vantage ^{2,3} or 2.35-2.5 L Vantage Plus ^{2,3} or 2.35-2.5 L Renegade ^{2,3}
PREPLANT SURFACE	Annual Grasses and Broadleaf Weeds including triazine-resistant broadleaf weeds	3.3 L	216 g Fieldstar ^{TM 4}
PREPLANT INCORPORATED	Annual Grasses and Broadleaf Weeds including triazine-resistant broadleaf weeds, Yellow Nutsedge	3.3 L	216 g Fieldstar ⁴
PRE-EMERGENT	Annual Grasses and Broadleaf Weeds including triazine-resistant broadleaf weeds	3.0 - 4.0 L	1.25 L Banvel ^{® II4} or 0.75 to 1.5 kg Lorox DF ⁴ or 0.8 to 1.5 L Lorox Liquid ⁴
		3.0 - 4.0 L	0.3 L CALLISTO ^{® 480SC}
		3.3 L	216 g Fieldstar ⁴

TIMING	WEEDS CONTROLLED	RATE PER HECTARE PRIMEXTRA II MAGNUM AGRICULTURAL HERBICIDE	RATE PER HECTARE TANK MIX PARTNER ¹
EARLY POST-EMERGENT (up to 2-leaf corn only)	Annual Grasses and Broadleaf Weeds including triazine-resistant broadleaf weeds	3.3 L	216 g Fieldstar ⁴
		3.0 – 4.0 L	0.6 - 1.25 L Banvel II ⁴
		3.0 – 4.0 L	0.3 L CALLISTO 480SC ⁵
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	0.6 - 1.25 L Banvel II ⁴
POST-EMERGENT when used ONLY on glufosinate ammonium tolerant corn (ex. 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 ⁷
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	1.8 L TOUCHDOWN TOTAL ^{2,3} or 1.8 L TRAXION ^{2,3} or 2.5 L Roundup Original ^{2,3} or 2.5 L Roundup Transorb ^{2,3} or 2.5 L Glyfos ^{2,3} or 2.5 L Credit Plus ^{2,3} or 2.5 L Vantage ^{2,3} or 2.5 L Vantage Plus ^{2,3} or 2.5 L Renegade ^{2,3}

1. Consult the label of the product to be tank mixed with PRIMEXTRA II MAGNUM Agricultural 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 herbicide 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. Some perennial weeds may not be controlled with these glyphosate rates. Consult the tank-mix partner label regarding perennial weeds controlled.

4. **DO NOT USE THESE TANK MIXES ON SEED CORN, SWEET CORN OR POPCORN.**

5. **FIELD CORN ONLY.**

6 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.

⁷ 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.

Note: If using Fieldstar herbicide, ensure that the water-soluble packets and the Fieldstar herbicide are completely dissolved before proceeding to the next step.

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 Agricultural 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 Agricultural Herbicide tank mixes with your liquid fertilizer carrier by mixing small proportional quantities in advance.

DRY BULK GRANULAR FERTILIZERS:

Many dry bulk granular fertilizers may be impregnated with PRIMEXTRA II MAGNUM Agricultural Herbicide for preplant incorporated application to control weeds in corn.

For workers incorporating atrazine into dry bulk fertilizers, the following conditions must be met:

- The activity is restricted to commercial facilities (prohibit on-farm impregnation).
- The facilities must employ a closed mix/load system.
- A maximum of 1500 kg active ingredient can be incorporated per day.
- This activity must occur for no more than 30 days per year.

Prepare the herbicide/fertilizer mixtures by using a closed mix/load system. Spray the herbicide uniformly onto the fertilizer. If the herbicide/fertilizer mixture is too wet, the use of a highly absorptive powder (generally less than 2% by weight), such as Microcel E, diatomaceous earth or finely powdered clay is recommended.

For best results, apply PRIMEXTRA II MAGNUM Agricultural Herbicide/fertilizer mixtures uniformly to the soil with properly calibrated equipment immediately after blending and incorporate according to label directions.

NOTE: Apply a minimum of 225 kg per hectare of dry granular fertilizer impregnated with recommended rates of PRIMEXTRA II MAGNUM Agricultural Herbicide.

PRECAUTIONS: Do not impregnate PRIMEXTRA II MAGNUM Agricultural Herbicide onto nitrate fertilizers, superphosphates or limestone.

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 Agricultural Herbicide. Refer to the label of the tank-mix partner and the surfactant for specific mixing instructions.

1. Fill spray tank 1/2 full with carrier. Engage gentle agitation.
2. Add Lorox DF or Fieldstar if applicable. Slurry Lorox DF or Fieldstar with water first if using liquid fertilizer as the carrier.
3. Add PRIMEXTRA II MAGNUM Agricultural Herbicide directly into the tank and maintain agitation. Ensure the PRIMEXTRA II MAGNUM Agricultural Herbicide is well mixed before adding remaining ingredients.
4. Fill the tank to 3/4 full with carrier and then add the Liberty, Lorox Liquid or Banvel II, if required.
5. Add the non-ionic surfactant, if using a glyphosate-containing tank-mix partner. Refer to the label of the tank mix partner and the surfactant for the specific mixing instructions.
6. Complete filling the spray tank with carrier maintaining gentle agitation during mixing and spraying operations.
7. Do not let stand without agitation.

WARNING:

Do not plant any crop other than corn in the same year on land treated with PRIMEXTRA II MAGNUM Agricultural 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. Do not tank mix with any other herbicide or additive unless listed on this label.

BUFFER ZONES:

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty.

Use of the following spray methods or equipment **DOES NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

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

Method of application	Buffer Zones (metres) Required for the Protection of:	
	Terrestrial Habitats	Aquatic habitats
Field sprayer	10	10

For field sprayer application, 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 crop canopy or ground, the labelled buffer zone can be reduced by 70%. When using a spray boom when individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy or ground, the labelled buffer zone can be reduced by 30%.

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

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada 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 AGRICULTURAL 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 Agricultural 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 Agricultural 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 Agricultural 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 Agricultural Herbicide or other Group 5 and/or Group 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 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 and to report suspected resistance, contact Syngenta Canada Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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