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[[LABEL]]

GROUP 15 HERBICIDE

DUAL[®] II Magnum[®] SI HERBICIDE**AGRICULTURAL**

Solution for Selective Weed Control

FOR CUSTOM APPLICATION TO DRY FERTILIZER ONLY**GUARANTEE:**

S-Metolachlor*760 g/L

* and R-enantiomer

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

CAUTION



POISON

CAUTION SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

REGISTRATION NO.: **26418**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **800 L**

Syngenta Canada, Inc.
140 Research Lane
Research Park
Guelph, Ontario
N1G 4Z3

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. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

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 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 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.

TOXICOLOGICAL INFORMATION

If swallowed, there is no specific antidote. Treat symptomatically. If a large amount has been ingested and emesis has been inadequate, lavage stomach. The active ingredient in this product, S-metolachlor, has a high affinity for activated charcoal. A suspension of activated charcoal in water can be given to absorb the remaining toxicant. 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. Do not contaminate food, feed, domestic or irrigation water supplies, lakes, streams and ponds.

Wear a long-sleeved shirt, long pants, a hat and enclosed boots during all activities. When handling the concentrate wear the previously mentioned clothing, chemical resistant gloves and goggles or a face shield. Avoid breathing vapours or spray mist. If ventilation is not adequate, wear an appropriate pesticide respirator. Do not eat, drink, smoke or apply cosmetics in areas where there is potential for exposure to this 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 clothing in detergent and hot water before reuse.

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.

CAUTION: Do not graze treated immature crops or cut for hay. Sufficient data are not available to support such use. In the case of corn, immature means before ear emergence. Make only one application per season.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

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

DO NOT APPLY BY AIR

If this pest control product is to be used on commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: www.croplife.ca

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 OR REFILLING 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 re-use this container for any other purpose.

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

[[BOOKLET]]

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INTRODUCTION

DUAL II Magnum SI herbicide is a liquid formulation designed specifically for impregnation on dry fertilizer. It will not mix with water or liquid fertilizer. DUAL II Magnum SI herbicide can be used in both bulk blenders and on-board fertilizer impregnation systems. This special low viscosity formulation adsorbs quickly and thoroughly to dry fertilizer and improves the flowability of the fertilizer/herbicide mixture under varying temperature and moisture conditions.

DO NOT USE IN COASTAL B.C.

CROP INFORMATION:

DUAL II Magnum SI herbicide provides selective weed control in:

Corn (hybrid, silage, seed, sweet)
Soybeans

WEEDS CONTROLLED:

American Nightshade	Eastern Black Nightshade
Fall Panicum	Crabgrass (smooth, hairy)
Old Witchgrass	Foxtail (green, yellow, giant)
Barnyard Grass	Yellow Nutsedge ¹
Redroot Pigweed (suppression only)	

¹ Extended periods of dry weather following application may result in reduced nutsedge control.

APPLICATION INFORMATION

PREPLANT INCORPORATION:

- Immediate incorporation is not necessary
- Incorporation equipment should include rolling or western harrows

INCORPORATION INSTRUCTIONS		
TYPE OF EQUIPMENT	MAXIMUM 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

CAUTION:

Do not apply to soils that contain less than 1% or more than 10% organic matter. Do not apply to terrain where there is a potential for surface run-off to enter aquatic systems. On sandy soils, heavy rainfall following an incorporated treatment may cause leaching of the herbicide. Winter cereals may be planted 4 1/2 months following application. If drought conditions persist after a preplant incorporated application, annual grass control may not be adequate.

DRY BULK GRANULAR FERTILIZERS:

Many dry bulk granular fertilizers may be impregnated with DUAL II Magnum SI herbicide for preplant incorporated application to control weeds in corn and soybeans. DUAL II Magnum SI herbicide can be applied to dry fertilizer in a bulk fertilizer blender or applied through an on-board injection system.

When using DUAL II Magnum SI herbicide in a bulk blender, ensure uniform application and mixing in the fertilizer. DUAL II Magnum SI herbicide contains a red dye. Visually inspect the fertilizer/herbicide mixture to ensure that thorough mixing has occurred. If the herbicide/fertilizer mixture in a bulk blender 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.

When using DUAL II Magnum SI herbicide in on-board impregnation systems use only high quality fertilizer with a minimum of fines. Absorptive powder is not recommended for use with DUAL II Magnum SI herbicide in on-board impregnation systems.

For best results, apply DUAL II Magnum SI 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 100 kg per hectare of dry granular fertilizer impregnated with recommended rates of DUAL II Magnum SI herbicide alone or in combination with other herbicides.

Do not mix, load, or clean equipment where there is a potential to contaminate wells or aquatic systems.

Do not impregnate DUAL II Magnum SI herbicide alone or in combination with other herbicides onto nitrate fertilizers, superphosphates, or limestone.

CORN**DUAL II MAGNUM SI ALONE:**

WEEDS CONTROLLED	TIMING	RATE PER HECTARE¹
Annual Grasses and Nutsedge	Preplant Incorporated	1.5 - 2.1 L

¹ Use the higher rate of DUAL II Magnum SI herbicide for heavier weed problems.

HERBICIDE COMBINATIONS (EASTERN CANADA ONLY):

NOTE: Apply the herbicides listed below onto the fertilizer in a separate operation.

WEEDS CONTROLLED	TIMING	RATE PER HECTARE DUAL II MAGNUM SI¹ HERBICIDE	RATE PER HECTARE/ COMBINATION PARTNER²
Nutsedge, Annual Grasses and Broadleaf Weeds	Preplant Incorporated	1.5 - 2.1 L	+ 1.1 - 1.7 kg Aatrex [®] NINE-0 [®] or 2.1 - 3.1 L AAtrex Liquid 480

¹ Use the higher rate of DUAL II Magnum SI herbicide for heavier weed problems.

² Consult the labels of the product to be applied with DUAL II Magnum SI herbicide for specific instructions regarding soil-type variations and other restrictions.

HERBICIDE COMBINATIONS (PRAIRIES AND INTERIOR B.C. ONLY):

NOTE: Apply the herbicides listed below onto the fertilizer in a separate operation.

WEEDS CONTROLLED	TIMING	RATE PER HECTARE DUAL II MAGNUM SI¹ HERBICIDE	RATE PER HECTARE/ COMBINATION PARTNER²
Green and Yellow Foxtail, Barnyard Grass and Broadleaf Weeds	Preplant incorporated	1.5 - 2.1 L	+ 1.1 - 1.7 kg AAtrex Nine-0 or 2.1 - 3.1 L AAtrex Liquid 480

¹ Use the higher rate of DUAL II Magnum SI herbicide for heavier weed problems.

² Consult the labels of the product to be applied with DUAL II Magnum SI herbicide for specific instructions regarding soil-type variations and other restrictions.

SOYBEANS**DUAL II MAGNUM SI ALONE:**

WEEDS CONTROLLED	TIMING	RATE PER HECTARE¹
Annual Grasses and Nutsedge	Preplant Incorporated	1.4 – 2.1 L

¹ Use the higher rate of DUAL II Magnum SI herbicide for heavier weed problems.

HERBICIDE COMBINATIONS

NOTE: Apply the herbicides listed below onto the fertilizer in a separate operation. DO NOT USE IN COASTAL B.C.

WEEDS CONTROLLED	TIMING	RATE PER HECTARE DUAL II MAGNUM SI¹ HERBICIDE	RATE PER HA/ COMBINATION PARTNER²
Nutsedge, Annual Grasses and Broadleaf Weeds including Nightshade ³	Preplant Incorporated	1.4 – 2.1 L	+ 550 - 750 g Sencor [®] 75DF or 850 mL - 1.1 L Sencor 500F or 540 g - 640 g Lexone [®] DF

¹ Use the higher rate of DUAL II Magnum SI herbicide for heavier weed problems.

² Consult the labels of the product to be applied with DUAL II Magnum SI herbicide for specific instructions regarding soil-type variations and other restrictions.

³ For optimum nightshade control, use the higher rate of DUAL II Magnum SI herbicide.

CAUTION: Soybeans should be seeded at least 4 cm deep or crop injury may result. Consult the labels of the products to be applied with DUAL II Magnum SI herbicide for specific crop recommendations. ADHERE TO THESE PRODUCT LABELS FOR PRECAUTIONS, WARNINGS, RESTRICTIONS, TANK MIXING AND SPRAYING INSTRUCTIONS, ROTATIONAL CROPS AND DETAILED DIRECTIONS FOR USE REGARDING DOSAGE VARIATIONS ACCORDING TO SOIL TYPE.

Resistance-Management Recommendations

For resistance management, DUAL II Magnum SI Herbicide is a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to DUAL II Magnum SI herbicide and other 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 DUAL II Magnum SI Herbicide or other Group 15 herbicides 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.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development.

Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

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 company representatives at 1-800-265-3554 or at www.syngenta.ca.

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