

Please read instructions on reverse before completing form.

	United States	<input type="checkbox"/>	Registration	OPP Identifier Number NOTIFICATION
	Environmental Protection Agency	<input type="checkbox"/>	Amendment	
	Washington, DC 20460	<input checked="" type="checkbox"/>	Other	

Application for Pesticide - Section I

1. Company/Product Number 100-829	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Dual II MAGNUM SI Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION

MAR - 2 2001

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
 This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. The following changes are being made via this notification: 1) Company name and address have been updated to reflect Syngenta Crop Protection, Inc. 2) The Conditions of Sale and Warranty statement has been changed to reflect the name change. Because Syngenta has been formed by the merger of Novartis Crop Protection, Inc. and Zeneca Ag Products, we have chosen to use the former Zeneca warranty statement as the Syngenta warranty statement. No other changes occur in the statement other than the name change. 3) The copyright date reflects Syngenta. 4) Trademark statements have been updated to reflect Syngenta for those products for which Syngenta holds the trademark. 5) The Internet address has been changed to reflect Syngenta. 6) Other places in the label which referring to the company name have been updated.

Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
*Certification must be submitted		If "Yes" No. per Unit Packaging wgt. Container	If "Yes" No. per Unit Packaging wgt. container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container	
5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product		6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Nan S. Padgett	Title Label Group Leader	Telephone No. (Include Area Code) 336-632-7567	
Certification			6. Data Application Received (Stamped)
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			
2. Signature	3. Title Label Group Leader		
4. Typed Name Nan S. Padgett	5. Date February 26, 2001		

NOTIFICATION
MAR - 2 2001

Dual II MAGNUM[®]

SI HERBICIDE

For custom application to dry fertilizer only for weed control in corn and soybeans

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

Active Ingredient:	
S-Metolachlor (CAS No. 87392-12-9)	71.0%
Other Ingredients:	29.0%
Total:	100.0%

This product contains petroleum distillates, xylene, or xylene range aromatic solvent.

Dual II MAGNUM SI contains 6.3 lbs. of active ingredient per gallon.

EPA Reg. No. 100-829

SCP 829A-L1E 0201

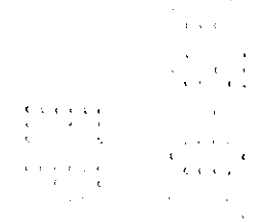


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CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE. In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or viton
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

To avoid drift, do not apply under windy conditions. Avoid application overlaps other than those used for even fertilizer application, as crop injury may result.

Note: Not for sale, use, or distribution in Nassau County or Suffolk County, New York.

A. GENERAL INFORMATION

Dual II MAGNUM SI is a liquid herbicide formulation designed for impregnation on dry bulk fertilizer and recommended as a preplant surface-applied, preplant incorporated, or preemergence treatment when impregnated on fertilizer for control of most annual grasses and certain broadleaf weeds in corn (all types), and soybeans. Dual II MAGNUM SI can be used in bulk fertilizer blenders and on-board fertilizer impregnation systems. Dual II MAGNUM SI contains a red dye to aid operators to determine when a uniform blend is achieved. This low viscosity (free-flowing) formulation adsorbs quickly and thoroughly to dry fertilizer, improving the flowability of the fertilizer/ herbicide mixture over varying temperature and moisture conditions.

Note: Dual II MAGNUM SI will not mix with water or liquid fertilizers.

Do not apply under conditions which favor runoff or wind erosion of soil containing this product to nontarget areas.

To prevent off-site movement due to runoff or wind erosion,

1. Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

2. Do not apply to impervious substrates, such as paved or highly compacted surfaces.
3. Do not use tailwater from the first flood or furrow irrigation of treated fields to treat nontarget crops, unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

If Dual II MAGNUM SI on dry fertilizer is incorporated, any supplemental tillage before planting must not exceed the depth of incorporation.

Dry weather following an application of Dual II MAGNUM SI on dry fertilizer may reduce effectiveness. Cultivate if weeds develop.

Dual II MAGNUM SI on dry fertilizer will not control emerged weeds.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control.

Precaution: Injury may occur to crops other than corn following the use of Dual II MAGNUM SI under abnormally high soil moisture conditions during early development of the crop.

1. SOIL TEXTURES AND HERBICIDE RATES

Where rates are based on coarse-, medium-, or fine-textured soils, it is understood that soil textural classes are generally categorized as follows:

Coarse	Medium	Fine	
Sand	Loam	Sandy clay loam	Sandy clay
Loamy sand	Silt loam	Silty clay loam	Silty clay
Sandy loam	Silt	Clay loam	Clay

Within rate ranges in the rate tables and elsewhere on this label, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter.

Note: Thoroughly clean application equipment before using. Dispose of cleaning solution in a responsible manner. Do not use an applicator contaminated with any other materials, or crop damage or application irregularities may result.

2. APPLICATION PROCEDURES

Application Timing

Dual II MAGNUM SI on dry fertilizer may be applied for weed control in certain crops at various times. Refer to the given crop section of the label to determine if application timings listed below are recommended.

1. **Preplant Surface-Applied:** For minimum-tillage or no-tillage systems only, Dual II MAGNUM SI on dry fertilizer may be applied up to 45 days before planting certain crops. Use only split applications for treatments made 30-45 days before planting, with 2/3 the recommended broadcast rate for the crop and soil texture applied initially and the remaining 1/3 at planting. Treatments less than 30 days before planting may be made either as a split or a single application. Refer to individual crop to determine if early preplant surface application is recommended. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.
2. **Preplant Incorporated:** Apply Dual II MAGNUM SI on dry fertilizer to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate Dual II MAGNUM SI on dry fertilizer after bed formation, unless specified otherwise.
3. **Preemergence:** Apply Dual II MAGNUM SI on dry fertilizer before planting and before weeds emerge.

Special Application Procedures

1. **Fall Application (Only in IA, MN, ND, SD, WI, and portions of NE and IL – See specific instructions in the Corn and Soybeans sections of this label for timing of application and other information):** Do not apply to frozen ground. Use on medium and fine soils with greater than 2.5% organic matter that will be planted to corn or soybeans the next spring. Ground may be tilled before or after application. Do not exceed a 2 to 3-inch incorporation depth if tilled after treatment. **Note:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for the specific crop, or illegal residues may result.

Ground Application: Apply Dual II MAGNUM SI on dry fertilizer by ground equipment in 200 lbs. or more of the herbicide/fertilizer mixture per acre, unless otherwise specified.

For information on impregnating dry fertilizer, see the **Dry Bulk Granular Fertilizers** section.

For information on application using variable-rate technologies, see the **Variable-Rate Application** section.

B. DUAL II MAGNUM SI APPLIED ALONE ON DRY FERTILIZER

1. WEEDS CONTROLLED

barnyardgrass (watergrass)	giant foxtail	signalgrass	yellow foxtail	Florida pusley
bristly foxtail	goosegrass	(Brachiaria)	yellow nutsedge	galinsoga
crabgrass	green foxtail	southwestern		pigweed
crowfootgrass	prairie cupgrass	cupgrass	carpetweed	tall waterhemp
fall panicum	red rice	wild proso millet*	common waterhemp	
foxtail millet	robust foxtails (purple, white)	witchgrass	Eastern black	
		woolly cupgrass*	nightshade	

*For control of these weeds in corn only, refer to the **Corn – Woolly Cupgrass and Wild Proso Millet Control Program** section of this label.

Weeds Partially Controlled*: common purslane, eclipta, Florida beggarweed**, hairy nightshade, sandbur, seedling johnsongrass, shattercane, Texas panicum***, volunteer sorghum, wild proso millet, and woolly cupgrass.

*See **General Information** section. Control of these weeds can be erratic, due partially to variable weather conditions. Control may be improved by following these suggested procedures:

1. In **Corn**, use 2.4-3.0 pts./A or the preplant surface-applied rates for Dual II MAGNUM SI alone on dry fertilizer when making preplant incorporated or preemergence applications.
2. **Thoroughly till moist soil** to destroy germinating and emerged weeds. If Dual II MAGNUM SI on dry fertilizer is to be applied preplant incorporated, this tillage may be used to incorporate Dual II MAGNUM SI on dry fertilizer if uniform 2-inch incorporation is achieved as recommended under **Application Procedures**.
3. Plant crop into moist soil **immediately after tillage**. If Dual II MAGNUM SI on dry fertilizer is to be used broadcast preemergence, apply before planting.
4. If available, **sprinkler irrigate** within 2 days after application. Apply 1/2-1 inch of water. Use lower water volume (1/2 inch) on *coarse-textured soils* and higher volume (1 inch) on *fine-textured soils*.
5. If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.

**For partial control of this weed, use a minimum of 1.6 pts./A of Dual II MAGNUM SI on dry fertilizer and apply preemergence just before planting.

***For partial control of this weed, use a minimum of 1.6 pts./A of Dual II MAGNUM SI on dry fertilizer and irrigate after application.

2. ROTATIONAL CROPS

Do not rotate to food or feed crops other than those listed below.

Dual II MAGNUM SI on Dry Fertilizer Alone: (1) If crop treated with Dual II MAGNUM SI alone on dry fertilizer is lost, corn, cotton, peanuts, pod crops, potatoes, safflowers, grain or forage sorghum (Concep®-treated), and soybeans may be replanted immediately. Do not make a second broadcast application of Dual II MAGNUM SI on dry fertilizer. (2) Barley, oats, rye, or wheat may be planted 4 1/2 months following treatment; alfalfa may be planted 4 months following application. Tomatoes may be planted 6 months following application. (3) Corn, cotton, peanuts, pod crops, potatoes, safflowers, grain or forage sorghum, soybeans, root crops, tobacco, barley, buckwheat, milo, oats, rice, rye, wheat, cabbage, or peppers may be planted in the spring following treatment. Clover may be seeded 9 months following application. Do not graze or feed forage or fodder from cotton to livestock. (4) Following a lay-by treatment or multiple treatments of Dual MAGNUM® brands applied the previous season, any crop in (1) above, in addition to tobacco, cabbage, peppers, stone fruits, or tree nuts, may be planted in the spring.

Dual II MAGNUM SI Mixtures on Dry Fertilizer or Sequential Treatments: For **Rotational Crops** restrictions for Dual II MAGNUM SI used in mixture or sequentially, refer to the statements/restrictions above for Dual II MAGNUM SI and to the respective product labels of any partner(s) for additional statements/restrictions.

Important Notes: To avoid injury to rotational alfalfa or clover: (1) Do not apply more than 1.9 lbs. active ingredient per acre (2.4 pts. of Dual II MAGNUM SI) preemergence (including preplant surface, preplant incorporated, etc.). (2) Do not make lay-by applications of Dual II MAGNUM SI on dry fertilizer.

C. CORN (ALL TYPES) – DUAL II MAGNUM SI ALONE ON DRY FERTILIZER

Apply Dual II MAGNUM SI on dry fertilizer, either preplant surface, preplant incorporated, or preemergence, using the appropriate rate specified below.

1. PREPLANT SURFACE-APPLIED

Refer to instructions for use of Dual II MAGNUM SI alone under **Application Procedures**.

A. Fall Application:

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 2.0-2.4 pts./A on *medium-textured* and 2.4 pts./A on *fine-textured soils*. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations. **Note:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for corn, or illegal residues may result.

B. Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply 2/3 the recommended rate of Dual II MAGNUM SI on dry fertilizer (2.0 pts./A on *medium soils* and 2.4 pts./A on *fine soils*) as a split treatment 30-45 days before planting and the remainder at planting. Applications made less than 30 days prior to planting may be as either a split or single treatment. Apply 1.6 pts./A on *coarse soils* not more than 2 weeks before planting.

C. On medium- and fine-textured soils with minimum- or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT, and WV, preplant surface applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., AAtrex®, Beacon®, Bicep®, Exceed®, Accent®, Banvel®, Basagran®, bromoxynil (Brominal® or Buctril®), or 2,4-D. If the postemergence treatment includes the herbicide used preplant surface-applied, do not exceed the total labeled rate for corn on a given soil texture. Observe all directions for use, precautions, and limitations on the label of the postemergent herbicide.

2. PREPLANT INCORPORATED OR PREEMERGENCE ON DRY FERTILIZER

Follow instructions for use of Dual II MAGNUM SI alone under **Application Procedures**. On *coarse soils*, apply 1.2-1.6 pts./A of Dual II MAGNUM SI if organic matter content is less than 3%, or 1.6 pts./A if organic matter content is 3% or greater. On *medium soils*, apply 1.6-2.0 pts./A of Dual II MAGNUM SI. On *fine soils*, apply 1.6-2.0 pts./A of Dual II MAGNUM SI if organic matter content is less than 3%, or 2.0-2.4 pts./A if organic matter content is 3% or greater.

Note for all applications to corn: To avoid possible illegal residues, do not graze or feed forage from treated areas for 30 days following application.

Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta – Partial Control: For more consistent partial control of shattercane, wild proso millet, woolly cupgrass, or eclipta, apply 2.4-3.0 pts./A on dry fertilizer as a single application; or apply 1.2-1.6 pts./A of Dual II MAGNUM SI on dry fertilizer preplant incorporated followed by 1.0-1.33 pts./A of Dual II MAGNUM preemergence; however, do not apply more than a total of 3.0 pts./A. Make the preemergence application before planting, and before weeds emerge. Apply the 1.6 pts./A rate of Dual II MAGNUM SI when a heavy infestation of shattercane, wild proso millet, woolly cupgrass, or eclipta is expected. A shallow cultivation may be needed to control any late emerging weeds.

Woolly Cupgrass and Wild Proso Millet Control Program: For control of these species, use the following 3-step program: (1) Apply Dual II MAGNUM SI on dry fertilizer early preplant, preplant incorporated, or preemergence before planting at 2.0 pts./A on *medium soil* and 2.4 pts./A on *fine-textured soils*, up to the maximum label rate. Lightly incorporate with a rotary hoe if rainfall does not occur within 5-7 days; (2) Apply a postemergence tank mix of Beacon at 0.38 oz./A or Exceed at 1 packet per 4 acres plus Accent SP at 0.33 oz./A plus 1.0 qt. of crop oil concentrate plus 1.0 gal./A of 28% nitrogen, or the equivalent amount of ammonium sulfate, when grasses are 2-3 inches tall and the corn is at least 4 inches tall; and (3) Cultivate 14-21 days after the postemergence application.

Notes: (1) Do not apply more than the labeled application rate for a given soil texture per year, either as a single or split treatment, or illegal residues may result. (2) In corn, Dual II MAGNUM SI on dry fertilizer may be used up to 3.0 pts./A as either a preplant surface, preplant incorporated, or preemergence treatment before planting on soils having an organic matter content between 6% and 20% or up to 2.4 pts./A on any soil for extended residual control and where severe stands of problem weeds are expected. (3) In the event of escape of annual weeds following a preplant surface, preplant incorporated, or preemergence treatment of Dual II MAGNUM SI on dry fertilizer, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., AAtrex, Beacon, Exceed, Accent, Banvel, Basagran, Brominal, Buctril, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, i.e., AAtrex, do not exceed the total labeled rate for corn on a given soil texture. (4) Brominal or Buctril may be applied postemergence alone or in tank mix combination with AAtrex. Do not exceed 1.2 lbs. a.i./A of AAtrex in tank mix combination with Brominal or Buctril, postemergence. Refer to the AAtrex, Brominal, and Buctril labels for specific rates and precautions. (5) Do not use Dual II MAGNUM SI on fertilizer on peat or muck soils.

D. CORN – DUAL II MAGNUM SI COMBINATIONS (SEQUENTIALLY-APPLIED) ON DRY BULK FERTILIZER

Dual II MAGNUM SI may be blended on dry bulk fertilizer. In a separate application, other herbicides registered for use with Dual II MAGNUM and also registered for application on dry fertilizer may be blended with the Dual II MAGNUM SI fertilizer blend. When other products are used, follow all restrictions, rate limitations, and precautions on the product's label.

Notes: (1) For all applications to corn, do not graze or feed forage from treated areas for 30 days following application, or possible illegal residues may result. (2) In corn, Dual II MAGNUM SI may be used up to 2.4 pts./A on any soil for extended residual control and where severe stands of problem weeds are expected.

Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta – Partial Control

For more consistent partial control of shattercane, wild proso millet, woolly cupgrass, or eclipta, where Dual II MAGNUM SI on dry fertilizer is applied sequentially with other registered corn herbicides, apply 2.4-2.8 pts. as a single application, or the following applications may be made:

1. Apply 1.2-1.6 pts./A of Dual II MAGNUM SI on dry fertilizer with 2.0 lbs. a.i./A of AAtrex or Princep® preplant incorporated followed by 1.0-1.33 pts. of Dual II MAGNUM preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge.
2. Apply Dual II MAGNUM SI on dry fertilizer at 1.6 pts./A alone or with up to 2.0 lbs. a.i./A of AAtrex, Princep, Bladex®, or Extrazine® I preplant incorporated. Do not exceed the total rate of triazine herbicide recommended for corn grown on a given soil texture. Follow with a post-directed application of Evik® 80W at 2.5 lbs./A. Refer to the Evik 80W label for specific directions for the post-directed application.
3. Apply Eradicane® or Sutan® (or equivalent EPTC or butylate formulations) at labeled rates preplant incorporated, followed by a preemergence application before planting of Dual II MAGNUM SI on dry fertilizer at 1.2-1.6 pts./A. Do not use Eradicane or Sutan on soils where rapid degradation has been shown to occur. Make the preemergence application before planting, and before weeds emerge.
4. For partial control of wild proso millet only, apply Dual II MAGNUM SI on dry fertilizer preemergence before planting at 1.2-1.6 pts./A, followed by a postemergence application of Prowl® + Bladex at labeled rates. Refer to the Prowl and Bladex labels for application instructions. Postemergence applications of Prowl and Bladex may cause corn injury.

Precaution: When following the application regimes in numbers 1-4 above, a shallow cultivation may be needed after the preemergence or postemergence application to help control any late emerging shattercane or wild proso millet plants.

E. SOYBEANS – DUAL II MAGNUM SI ALONE ON DRY FERTILIZER

Apply Dual II MAGNUM SI on dry fertilizer, either preplant surface-applied, preplant incorporated, or preemergence, using the appropriate rate specified below. **Preplant Surface-Applied, Preplant Incorporated, or Preemergence:** Follow instructions for use of Dual II MAGNUM SI alone under **Application Procedures**.

Preplant Surface-Applied: Refer to instructions for use of Dual II MAGNUM SI alone under **Application Procedures**.

A. Fall Application:

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 2.0-2.4 pts./A on *medium-textured* and 2.4 pts./A on *fine-textured soils*. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2-3 inches. Minimize furrow and ridge formation in the tillage operations. **Note:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate on soybeans, or illegal residues may result.

B. Use on medium and fine soils with minimum-tillage or no-tillage systems in CO, CT, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NY, OH, PA, RI, SD, TN, VA, VT, WI, WV, and WY. Apply $\frac{2}{3}$ the recommended rate of Dual II MAGNUM SI (2.0 pts./A on *medium soils* and 2.4 pts./A on *fine soils*) as a split treatment 30-45 days prior to planting and the remainder at planting. Applications made less than 30 days before planting may be as either a split or single treatment. Apply 1.6 pts./A on *coarse soils* not more than 2 weeks before planting.

Preplant Incorporated or Preemergence on Dry Fertilizer: On *coarse soils*, apply 1.2-1.6 pts./A of Dual II MAGNUM SI if organic matter content is less than 3%, or 1.6 pts./A if organic matter content is 3% or greater. On *medium soils*, apply 1.6-2.0 pts./A of Dual II MAGNUM SI. On *fine soils*, apply 1.6-2.0 pts./A of Dual II MAGNUM SI if organic matter content is less than 3%, or 2.0-2.4 pts./A if organic matter content is 3% or greater.

Note: On soybeans, Dual II MAGNUM SI may be used up to 3.0 pts./A on dry fertilizer as a preplant surface-applied, preplant incorporated, or preemergence treatment before planting on soils having an organic matter content between 6% and 20%. The total Dual II MAGNUM SI rate applied to soybeans during any one crop should not exceed 3.0 pts./A.

F. DRY BULK GRANULAR FERTILIZERS

Many dry bulk granular fertilizers may be impregnated or coated with Dual II MAGNUM SI alone. Dual II MAGNUM SI may be sequentially applied to dry bulk fertilizer in separate operations with other products which are registered for preplant incorporated or preplant surface application which are used to control weeds in crops on the Dual II MAGNUM SI label and are not prohibited from use on dry bulk granular fertilizer.

When applying Dual II MAGNUM SI or Dual II MAGNUM SI with sequentially impregnated products on dry bulk granular fertilizers, follow all directions for use and precautions on the respective product labels regarding target crops, rates per acre, soil texture, application methods (including timing of application), and rotational crops.

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

Prepare the herbicide/fertilizer mixtures by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray Dual II MAGNUM SI onto the fertilizer must be placed to provide uniform spray coverage. Care should be taken to aim the spray directly onto the moving fertilizer and to avoid spraying the walls of the blender.

Blender Mixing Instructions

Dual II MAGNUM SI Alone: Fill the blender with at least $\frac{2}{3}$ of the required amount of dry bulk granular fertilizer to be used. Spray the Dual II MAGNUM SI directly onto the moving dry fertilizer. Allow the fertilizer to blend for 5 minutes or until the mixture is uniform. Add the remainder of the fertilizer. Blend for 5 minutes or until the mixture is uniform. Spread the herbicide/fertilizer mixture as soon as possible.

Dual II MAGNUM SI Combinations: Do not mix Dual II MAGNUM SI directly with other materials. Dual II MAGNUM SI may be applied sequentially onto dry fertilizer with other herbicides labeled for applications on dry fertilizer when the following procedure is followed:

Fill the blender with at least $\frac{2}{3}$ of the required amount of dry bulk granular fertilizer to be used. Spray the Dual II MAGNUM SI alone, directly onto the moving dry fertilizer. Allow the fertilizer to blend for 5 minutes or until the mixture is uniform. Then spray the combination partner onto the moving fertilizer. Blend the herbicide/fertilizer mixture for 5 minutes or until uniform. Add the remainder of the fertilizer. Blend for 5 minutes or until the mixture is uniform. Spread the herbicide/fertilizer mixture as soon as possible. Follow the blender mixing instructions on the label of the companion product.

Calculate amounts of Dual II MAGNUM SI by the following formula:

$$\frac{2,000}{\text{lbs. of fertilizer per acre}} \times \text{pts./A of liquid product} = \text{pts. of liquid product per ton of fertilizer}$$

Pneumatic (Compressed Air) Application: Dual II MAGNUM SI may be applied through pneumatic applicators, whether the herbicide/fertilizer mixture is blender-mixed, or on-board fertilizer impregnation systems are used.

Dual II MAGNUM® SI

HERBICIDE

For custom application to dry fertilizer only
for weed control in corn and soybeans

Active Ingredient:	
S-Metolachlor (CAS No. 87392-12-9)	71.0%
Other Ingredients:	29.0%
Total:	100.0%

This product contains petroleum distillates, xylene, or xylene range aromatic solvent.

Dual II MAGNUM SI contains 6.3 lbs. of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements at end of label.

EPA Reg. No. 100-829

Product ID.
53421

EPA Est.

syngenta



CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE. In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Container Disposal

Thoroughly clean container before reuse, unless this is a Syngenta refillable container. If this is a Syngenta refillable container and is to be refilled, do not rinse with any material or introduce any pesticide other than Dual II MAGNUM SI. Reseal and return the container to an authorized Syngenta refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

Note: This product may be stored at temperatures down to 30 degrees below 0°F.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

To be used in accordance with directions for use in Dual II MAGNUM SI label booklet. See Dual II MAGNUM SI label booklet for pesticide disposal instructions.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Chemigation

Do not apply this product through any irrigation system.

PRECAUTIONARY STATEMENTS**Hazards to Humans and Domestic Animals****CAUTION**

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. May cause skin sensitization reactions in some people.

Statement of Practical Treatment

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

Note to Physician: If ingested, induce emesis or lavage stomach. Administration of an aqueous slurry of activated charcoal can be considered. Treat symptomatically.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Ground Water Advisory

The active ingredient in Dual II MAGNUM SI has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Surface Water Advisory

The active ingredient in Dual II MAGNUM SI has the potential to contaminate surface water through ground application drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

Mixing/Loading Instructions

Care must be taken when using this product to prevent spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

This product may not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be mixed/loaded or used within 50 ft. of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

Dual II MAGNUM® SI trademark of Syngenta
U.S. Patent Nos. 4,618,361; 5,002,606

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Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

GALLONS
U.S. Standard Measure

Dual II MAGNUM SI must not be mixed with any other liquid or dry material in on-board fertilizer impregnation system tanks. Use high quality fertilizer with a minimum of fines when applying Dual II MAGNUM SI with on-board impregnation equipment.

Notes: (1) Dual II MAGNUM SI is designed and labeled to be applied to dry fertilizer only. Do not mix with water, other liquid additives, or liquid fertilizers for application by sprayers. Lack of mixing, poor results, and crop injury may result. (2) Drying agents are not recommended for use in on-board fertilizer impregnation systems. (3) When urea is to be used as one component in the dry bulk granular fertilizer mixture, it should be added to the blender last.

Precautions: To avoid potential for explosion. (1) Do not impregnate Dual II MAGNUM SI or Dual II MAGNUM SI sequentials on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers. (2) Do not use Dual II MAGNUM SI or Dual II MAGNUM SI sequentials on straight unadulterated agricultural limestone, since absorption will not be achieved. Limestone prills which contain a binding agent and fertilizer blends containing limestone can be impregnated. (3) Do not mix Dual II MAGNUM SI with any water, liquid, or dry product. (4) Dual II MAGNUM SI may be applied **only** to dry bulk granular fertilizer.

Application

Apply 200 lbs. or more of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury and achieve weed control. Nonuniform application will result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil may improve weed control. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On coarse-textured soils, make applications approximately 14 days prior to planting.

Precaution: To avoid crop injury, do not use the herbicide/fertilizer mixture on crops where bedding occurs.

G. VARIABLE-RATE APPLICATION

Variable-Rate Broadcast Ground Application for Corn and Soybeans

Variable-rate technologies may be used for more precise applications. Two additive factors have been determined for use in applications using variable-rate technologies. One of these factors (A) is directly related to soil texture and the other (B) is related to percent organic matter (OM) and soil texture. When these two factors are added together, the resulting application rate will be more precise for a soil of a given soil texture and organic matter content. Use the formulas below to assure a more precise rate for any given area within a field.

Formulas* for Preplant Surface-Applied, Preplant Incorporated, Preemergence, and Early Pre-plant Applications

Refer to specific instructions regarding these applications in the **Application Procedures** section of this label, as well as the appropriate crop section.

Soil Texture	Rates in Pints Per Acre			
	Preplant Surface-Applied Preplant Incorporated, Preemergence		Early Preplant	
	A	B	A	B
COARSE	1.2	+ (0.12 x % OM)	1.45	+ (0.12 x % OM)
MEDIUM	1.4	+ (0.12 x % OM)	1.7	+ (0.10 x % OM)
FINE	1.6	+ (0.12 x % OM)	2.0	+ (0.08 x % OM)

*Do not use on soils with greater than 8% organic matter (OM).

Formulas* for Fall Applications

This product is registered for use only where corn or soybeans will be grown the following year in IA, MN, SD, ND, WI, and portions of NE and IL. Refer to specific instructions and restrictions regarding fall applications in the **Corn** and **Soybeans** sections of this label.

Soil Texture	Rates in Pints Per Acre	
	Fall Applications	
	A	B
COARSE	DO NOT USE	
MEDIUM	1.68	+ (0.136 x % OM)
FINE	2.18	+ (0.08 x % OM)

*Do not use on soils with greater than 8% organic matter (OM).

H. STORAGE AND DISPOSAL

Pesticide Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, dry fertilizer mixture, or rinsate is a violation of federal law. Pesticide, dry fertilizer mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

Container Disposal

Refer to label on container for disposal instructions.

This product may be stored at temperatures down to 30 degrees below 0°F.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

I. PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. May cause skin sensitization reactions in some people.

Statement of Practical Treatment

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

Note to Physician: If ingested, induce emesis or lavage stomach. Administration of an aqueous slurry of activated charcoal can be considered. Treat symptomatically.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or viton
- Shoes plus socks

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

Engineering Control Statements

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Ground Water Advisory

The active ingredient in Dual II MAGNUM SI has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Surface Water Advisory

The active ingredient in Dual II MAGNUM SI has the potential to contaminate surface water through ground application drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

Mixing/Loading Instructions

Care must be taken when using this product to prevent spills, or improper disposal of excess pesticide, herbicide/fertilizer mixtures, or rinsates.

Check-valves or antisiphoning devices must be used on all mixing equipment.

This product may not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be mixed/loaded or used within 50 ft. of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

AAtrex®, Beacon®, Bicep®, Concep®, Dual MAGNUM®, Dual II MAGNUM® SI, Evik®, Exceed®, and Princep® trademarks of Syngenta

U.S. Patent Nos. 4,478,635; 4,618,361; 4,671,819; 5,002,606

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