



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460**

**OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION**

September 18, 2023

Rachel Hardie
Regulatory Manager
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419

Subject: Notification per PRN 98-10 – Update supplemental label to match the use directions for legume vegetables and sugarcane on the master label
Product Name: Dual Magnum Herbicide
EPA Registration Number: 100-816
Application Date: February 9, 2023
Decision Number: 590750

Dear Rachel Hardie:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped “NOTIFICATION” and placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, please contact Derek Corbin at 202-566-2571 or at Corbin.Derek@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Mindy Ondish".

Mindy Ondish
Product Manager 23
Herbicide Branch
Registration Division (7505T)
Office of Pesticide Programs

SUPPLEMENTAL LABELING

Syngenta Crop Protection, LLC
P. O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 816A-S7 1222

NOTIFICATION

100-816

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

09/18/2023

Sale, use, and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.

S-METOLACHLOR GROUP 15 HERBICIDE

Dual Magnum® Herbicide

This supplemental label expires on 11/14/2025 and must not be used or distributed after this date.

Active Ingredient:

S-metolachlor*:	83.7%
Other Ingredients:	16.3%
Total:	100.0%

*CAS No. 87392-12-9

Dual Magnum Herbicide is formulated as an Emulsifiable Concentrate (EC) and contains the equivalent of 83.7% or 7.62 lb of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Reg. No. 100-816

All applicable directions, restrictions and precautions on the EPA registered label are to be followed. Before using Dual Magnum Herbicide as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.



DIRECTIONS FOR USE

Legume Vegetables (Succulent or Dried), Crop Group 6, except Soybean [(NOT FOR POSTEMERGENCE AND OR CHEMIGATION (CENTER PIVOT ONLY) USE IN CALIFORNIA)]

Fall, Preplant Incorporated, Preemergence, Postemergence, and/or Chemigation (Center Pivot Only) Applications

Crops (including cultivars, varieties, and/or hybrids of these)			
<p>Edible Podded (only): Jackbean Sword bean Soybean, (immature seed)</p> <p>Edible Podded, Succulent Shelled or Dried Shelled: Bean (<i>Phaseolus</i> spp.) Pigeon pea Bean (<i>Phaseolus</i> spp.) Field bean Great Northern Kidney bean Lima bean Navy bean Pinto bean Runner bean Snap bean</p>	<p>Edible Podded, Succulent Shelled or Dried Shelled: Bean (<i>Phaseolus</i> spp.) (continued) Tepary Bean Wax Bean</p> <p>Pea (<i>Pisum</i> spp.) Dwarf pea Edible-pod pea English pea Field pea Garden pea Green pea Snow pea Sugar snap pea</p>	<p>Edible Podded, Succulent Shelled or Dried Shelled: (continued)</p> <p>Bean (<i>Vigna</i> spp.) Adzuki bean Asparagus bean Blackeyed pea Catjang Chinese longbean Cowpea Crowder pea Moth bean Mung bean Rice bean Southern pea Urd bean Yardlong bean</p>	<p>Succulent Shelled or Dried Shelled: Broad bean (fava bean)</p> <p>Dried Shelled Only: Chickpea (garbanzo bean) Guar Lablab bean (hyacinth bean) Grain lupin Sweet lupin White lupin White sweet lupin Lentils</p>
Application Timing	Rate (pt/A)	Use Directions	
<p>Fall Application for Spring Weed Control</p> <p>For use in the following states: Iowa Illinois Minnesota Nebraska North Dakota South Dakota Wisconsin</p>	<p>For minimum-till or no-tillage systems on soils with $\geq 2.5\%$ organic matter, apply rate based on soil texture:</p> <p><i>Medium Soils:</i> Apply 1.67-2.0 pt/A</p> <p><i>Fine Soils:</i> Apply 2.0 pt/A</p>	<p>Apply after harvest when the sustained soil temperature at a 4-inch depth is less than 55° F and falling.</p> <p>Apply after September 30 in ND, SD, MN, WI and north of Route 30 in IA.</p> <p>Apply after October 15 North of Route 91 in NE and south of Route 30 in IA.</p> <p>Apply after October 31 North of Route 136 in IL.</p> <p>When a fall and/or a spring tillage follows application, do not exceed an incorporation depth of 2-3 inches.</p> <p>Minimize furrow and ridge formation in the tillage operations.</p>	
<p>Preplant Incorporated</p>	<p>For all applications use the rate for the specific soil texture and organic matter (OM) as follows:</p>	<p>Apply to the soil and incorporate in the top 2 inches within 14 days before planting using an implement capable of providing uniform incorporation.</p>	

	<p><i>Coarse Soils:</i> 1.0-1.33 pt/A; <3% OM 1.33 pt/A; ≥ 3% OM</p> <p><i>Medium Soils:</i> 1.33-1.67 pt/A</p> <p><i>Fine Soils:</i> 1.33-1.67 pt/A; <3% OM 1.67-2.0 pt/A; ≥ 3% OM</p>	<p>Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.</p> <p>If a crop will be planted on beds, apply and incorporate after bed formation, unless specified otherwise.</p> <p>For California Only for Beans, Peas, and Lentils: For preplant incorporation, broadcast alone or with tank mix partners to the soil and thoroughly incorporate with a disk or similar implement set to till 4-6 inches deep. For more thorough incorporation, till the soil in 2 different directions (cross-till). Crops may be planted on flat surface or on beds.</p> <p>Use caution when forming the beds to ensure that only soil from the treated zone is used (i.e., do not bring untreated soil to soil surface). If application is made to preformed beds, incorporate with a tillage implement set to till 2-4 inches deep. Use care during tilling to keep the treated, tilled soil on the beds.</p>
<p>Preemergence</p>	<p>For all applications use the rate for the specific soil texture and organic matter (OM) as follows:</p> <p><i>Coarse Soils:</i> 1.0-1.33 pt/A; <3% OM 1.33 pt/A; ≥ 3% OM</p> <p><i>Medium Soils:</i> 1.33-1.67 pt/A</p> <p><i>Fine Soils:</i> 1.33-1.67 pt/A; <3% OM 1.67-2.0 pt/A; ≥ 3% OM</p>	<p>Make preemergence applications after planting, but before crop emerges.</p> <p>For California Only for Beans, Peas, and Lentils: Apply after planting. Water with sprinkler or flood irrigation within 7-10 days.</p>
<p>Postemergence and or Chemigation (Center Pivot Only)</p>	<p>For all applications use the rate for the specific soil texture and organic matter (OM) as follows:</p> <p><i>Coarse Soils:</i> 1.0-1.33 pt/A; <3% OM 1.33 pt/A; ≥ 3% OM</p> <p><i>Medium Soils:</i> 1.33-1.67 pt/A</p> <p><i>Fine Soils:</i> 1.33-1.67 pt/A; <3% OM 1.67-2.0 pt/A; ≥ 3% OM</p>	<p>Apply Dual Magnum Herbicide postemergence or chemigation only after the first trifoliolate stage of plant growth.</p> <p>Application to plants with less than one trifoliolate can result in unacceptable crop injury.</p> <p>When applied broadcast over-the-top, crop injury in the form of leaf spotting and speckling may be observed, especially with rates greater than 1 pt/A.</p> <p>DO NOT graze or harvest forage or hay following postemergence applications.</p> <p>Refer to Section 4.6 for chemigation restrictions and directions.</p>
<p>For Weed Control:</p> <ul style="list-style-type: none"> Refer to Section 8.0 for list of weeds controlled or partially controlled. 		

Tank Mix Application Options:

- Refer to **Section 9.5.2** for preplant incorporated tank-mix options.

Resistance Management:

- Refer to **Section 3.1**.

Precautions:

- All cultivars have not been tested for tolerance, especially postemergence or postemergence chemigation applications. Experiment on a limited basis until on-farm confidence in these use patterns and rates are obtained.
- On English peas, spring preemergence or pre-plant applications where soils are cold and wet during pea germination and emergence, the use of Dual Magnum Herbicide may delay maturity and/or reduce yields.
- Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered postemergence herbicide(s) or by mechanical means.
- The risk of crop injury is greater on lighter textured soils and with higher use rates, especially when coupled with heavy rains or when excessive multiple irrigations occur within 5 days of application.
- Postemergence or postemergence-chemigation applications to wet plants or when conditions are extremely hot or humid may result in increased risk of crop injury.
- Postemergence or postemergence-chemigation applications should only be applied in a water-carrier. The addition of fertilizers, adjuvants or other postemergence herbicides will increase the risk of crop injury.

USE RESTRICTIONS

- 1) Refer to **Section 7.1** for additional product use restrictions.
- 2) Refer to **Section 4.6** for chemigation restrictions and directions.
- 3) **Maximum Single Application Rate:** 2.0 pt/A - (1.91 lb ai/A of S-metolachlor)
- 4) **Minimum Application Interval:** 2 weeks
- 5) **Maximum Annual Rate:** 2.0 pt/A/year - (1.91 lb ai/A of S-metolachlor)
 - a. **DO NOT** exceed 1.91 lb ai/A/year of S-metolachlor-containing products.
- 6) The combined total amount of Dual Magnum Herbicide from fall, preplant incorporated, preemergence, postemergence or chemigation applications must not exceed the maximum allowed annual rate.
- 7) **DO NOT** apply to frozen ground.
- 8) **DO NOT** make “Fall Applications for Spring Weed Control” or “Postemergence and/or Chemigation” applications to English peas.
- 9) **DO NOT** graze or harvest forage or hay following postemergence applications.
- 10) **Preharvest Interval (PHI):**
 - a. **Preemergence**
 - i. Forage: 60 days
 - ii. Hay: 120 days
 - b. **Postemergence Preharvest Interval (PHI):**
 - DO NOT GRAZE OR HARVEST FORAGE OR HAY.**
 - ii.** Seed: 50 days

Sugarcane (NOT FOR USE IN CALIFORNIA)

Preplant, Preemergence, and Postemergence Applications

Crops (including cultivars, varieties, and/or hybrids of these)		
Sugarcane		
Application Timing	Rate (pt/A)	Use Directions
Preplant	1.78 – 2.44 pt/A	<p>See Section 4.3 for Application Volume and Spray coverage information.</p> <p>Apply by ground or air prior to planting of cane.</p> <p>Application can also be made after harvest of ratoon cane.</p> <p>Apply by ground or air as a broadcast application for the residual control of certain grasses and broadleaf weeds, plus yellow nutsedge. Dual Magnum Herbicide will not control emerged weeds.</p>
Preemergence	1.78 – 2.44 pt/A	<p>See Section 4.3 for Application Volume and Spray coverage information.</p> <p>Apply by ground or air after planting of cane but prior to crop emergence.</p> <p>Application can also be made after harvest of ratoon cane.</p> <p>Apply by ground or air as a broadcast application for the residual control of certain grasses and broadleaf weeds, plus yellow nutsedge. Dual Magnum Herbicide will not control emerged weeds.</p>
Postemergence	1.00 – 1.96 pt/A	<p>See Section 4.3 for Application Volume and Spray coverage information.</p> <p>Apply by ground or air as a broadcast application for the residual control of certain grasses and broadleaf weeds, plus yellow nutsedge. Dual Magnum Herbicide will not control emerged weeds.</p> <p>If a preplant or preemergence application was made earlier in the season (not to exceed 2.44 pt/A) only 1.0 pt/A maybe applied postemergence. The total amount of Dual Mangum applied preplant, preemergence and postemergence cannot exceed 3.49 pt/A/year-(3.34 lb ai/A/year).</p>
<p>For Weed Control:</p> <ul style="list-style-type: none"> Refer to Section 8.0 for list of weeds controlled or partially controlled. 		
<p>Tank Mix Application Options:</p> <ul style="list-style-type: none"> Refer to Section 9.15.2 for tank-mix options. 		
<p>Resistance Management:</p> <ul style="list-style-type: none"> Refer to Section 3.1. 		
USE PRECAUTIONS		

- Postemergence application rates less than 1.0 pt/A may result in incomplete weed control and loss of residual control.
- The addition of a spray adjuvant such as crop oil concentrates (COC's) or methylated seed oils (MSO's) can increase the risk of crop injury.

USE RESTRICTIONS

- 1) Refer to **Section 7.1** for additional product use restrictions.
- 2) **Maximum Single Preplant or Preemergence Application Rate:** 2.44 pt/A - (2.32 lb ai/A of S-metolachlor)
- 3) **Maximum Single Postemergence Application Rate:** 1.96 pt/A - (1.87 lb ai/A of S-metolachlor)
- 4) **Maximum Single Postemergence Application Rate, if a Preplant or Preemergence application was made:** 1.0 pt/A - (0.95 lb ai/A of S-metolachlor)
- 5) **DO NOT** make more than two applications of Dual Magnum Herbicide.
- 6) **DO NOT** make application to sugarcane greater than 60 inches in height.
- 7) **Minimum Application Interval:** 2 weeks
- 8) **Maximum Annual Rate:** 3.49 pt/A/year- (3.32 lb ai/A of S-metolachlor)
 - a. **DO NOT** exceed 3.34 lb ai/A/year of s-metolachlor-containing products.
- 9) **Preharvest Interval (PHI):**
 - a. **DO NOT** apply within 100 days of harvest

Tank-Mix Combinations for Sugarcane

Application	Tank-Mix Brands	Use Directions
Preplant	Solo glyphosate brands Gramoxone brands	These tank-mixtures are for the control of emerged weeds prior to sugarcane emergence. Do not apply Solo glyphosate brands or Gramoxone brands postemergence over-the-top to emerged sugarcane If Dual Magnum Herbicide is tank-mixed with other herbicides follow the label restrictions for the most restrictive tank-mix partner(s).
Preemergence	AAtrex brands or other solo atrazine products Callisto® or Explorer® Callisto Xtra® Envoke® Evik® Prowl, Prowl® H2O or other solo pendimethalin products TriCor or other solo metribuzin products	These tank mixtures are for improved weed control spectrum. If Dual Magnum Herbicide is tank-mixed with other herbicides follow the label restrictions for the most restrictive tank-mix partner(s).

<p>Postemergence</p>	<p>AAtrex brands or other solo atrazine products</p> <p>Callisto or Explorer</p> <p>Callisto Xtra</p> <p>2,4-D</p> <p>Armezon® or other solo tropamezone products</p> <p>Banvel, Clarity® or other solo dicamba containing products</p> <p>Envoke</p> <p>Evik</p> <p>Permit® or other solo halosulfuron products</p> <p>TriCor or other solo metribuzin products</p>	<p>These tank mixtures are for improved spectrum and improved postemergence weed control.</p> <p>If Dual Magnum Herbicide is tank-mixed with other herbicides follow the label restrictions for the most restrictive tank-mix partner(s).</p>
<p>See Appendix 12.1 for the EPA Registration Number and Active Ingredient(s) in each listed brand.</p>		
<p style="text-align: center;">TANK-MIX USE PRECAUTIONS</p>		
<p>Precautions:</p> <ul style="list-style-type: none"> • The addition of a spray adjuvant such as a crop oil concentrate (COC) or methylated seed oil (MSO) can increase the risk of crop injury. • Injury risk can be reduced by using the lowest effective rate of the tank mix partner(s) and/or adjuvant and by avoiding applications under adverse growing conditions or high soil or air humidity. • Not all tank-mixes have been tested for crop tolerance. Experiment on a limited basis until on-farm confidence in these tank-mixes are obtained. 		
<p style="text-align: center;">TANK-MIX USE RESTRICTIONS</p>		
<ol style="list-style-type: none"> 1) All use restrictions cited in Section 9.15.1 for Dual Magnum Herbicide solo apply to tank mixes with Dual Magnum Herbicide. 2) It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. 		

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