



Section 24(c) Special Local Need Label

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF OREGON

Dual Magnum® Herbicide
For Weed Control in Pumpkin, Winter Squash, and Summer Squash

EPA Reg. No. 100-816
EPA SLN No. OR-200003

This label for Dual Magnum Herbicide is valid until December 31, 2025 or until otherwise amended, withdrawn, cancelled, or suspended.

Active Ingredient:

S-metolachlor (CAS No. 87392-12-9) 83.7%

Other Ingredients:..... 16.3%

Total: 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

**SYNGENTA'S SPECIAL CONDITIONS, RISKS OF USE AND DISCLAIMER FOR USE OF
DUAL MAGNUM HERBICIDE ON CROPS ON THIS 24(c) LABEL**

IMPORTANT- READ BEFORE USE

**THESE CONDITIONS RISKS OF USE AND DISCLAIMER ARE REQUIRED BY SYNGENTA
CROP PROTECTION LLC AND NOT SPECIFIED BY U.S. EPA OR THE OF STATE OF
OREGON**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SYNGENTA CROP PROTECTION, LLC INTENDS THAT THE PRODUCT THAT IS THE SUBJECT OF THIS SECTION 24(c) LABEL BE PURCHASED ONLY BY END USERS WHO AGREE BY ELECTRONIC SIGNATURE ON SYNGENTA CROP PROTECTION'S INTERNET SITE TO THE TERMS AND CONDITIONS REQUIRED BY SYNGENTA CROP PROTECTION, LLC INCLUDING A WAIVER AND RELEASE FROM ALL LIABILITY AND INDEMNIFICATION BY THE USER AND/OR GROWER OF SYNGENTA AND OTHERS FOR FAILURE TO PERFORM AND FOR CROP INJURY, CROP YIELD REDUCTION, AND/OR CROP LOSS FROM USE OF DUAL MAGNUM HERBICIDE ON CROPS ON THIS 24(c) LABEL. IF SUCH TERMS AND CONDITIONS ARE UNACCEPTABLE, RETURN THE DUAL MAGNUM HERBICIDE AT ONCE UNOPENED OR USE THE DUAL MAGNUM HERBICIDE FOR A DIFFERENT APPROVED USE IN ACCORDANCE WITH THE LABEL AFFIXED TO THE PRODUCT CONTAINER.

USE OF DUAL MAGNUM HERBICIDE (THE “PRODUCT”) ON CROPS LISTED (THE “CROP”) FOR THIS SPECIAL LOCAL NEED MAY RESULT IN CROP INJURY, CROP YIELD REDUCTION AND/OR CROP LOSS AS FURTHER DISCUSSED BELOW. READ AND UNDERSTAND THESE CONDITIONS AND RISKS OF USE FOR SPECIAL LOCAL NEED BEFORE USING THE PRODUCT ON THE CROP. SYNGENTA RECOMMENDS THAT THE USER TEST THIS PRODUCT TO DETERMINE ITS SUITABILITY FOR SUCH INTENDED USE.

Syngenta Crop Protection, LLC makes the Product available for use in the manner described in this Special Local Need Label on the basis that, in the sole opinion of the user, the benefits and utility derived from the use of the Product on the Crop outweigh the potential risk of Crop injury, Crop yield reduction or Crop loss.

The decision to use this Product in the manner described in this Special Local Need Label must be made by each individual user on the basis of anticipated benefits versus (i) the potential risk of Crop injury, Crop yield reduction and Crop loss, (ii) the severity of the target pest infestation, (iii) the cost and availability of alternative pest controls and (iv) any other relevant factors. Syngenta recommends that the user test this Product to determine its suitability for such intended use.

By purchasing the Product for use, or using the Product in the manner described in this Special Local Need Label, you acknowledge and accept that, to the extent consistent with applicable law:

- 1) you assume all risk of Crop injury, Crop yield reduction and Crop loss;
- 2) Syngenta Crop Protection, LLC do not make, and do not authorize any agent or representative to make, any representations or recommendations regarding the use of this Product on the Crop other than the statements on this Special Local Need Label;
- 3) Syngenta Crop Protection, LLC do not make, and do not authorize any agent or representative to make, any warranties, express or implied, with respect to the use of the Product on the Crop and disclaim all warranties, expressed or implied, including any implied warranty of merchantability;
- 4) Syngenta Crop Protection, LLC disclaim all liability for any damages, losses, expenses, claims or causes of actions arising out of or relating to Crop injury, Crop yield reduction and/or Crop loss;
- 5) these conditions and Risks of Use for Special Local Need supersede any contrary representations or recommendations by Syngenta Crop Protection, LLC or their respective agents or representatives, and any provisions in or on any Product literature or labeling including any provisions on the label affixed to the Product container.

If these Conditions and Risks of Use for Special Local Need are not acceptable, the unopened Product may be returned to the seller for a refund or used for a different labeled use in accordance with the label affixed to the Product container.

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

DIRECTIONS FOR USE

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This label must be in the possession of the user at the time of application.
- Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA-registered label.
- The risk of crop injury increases when adjuvants (e.g., non-ionic surfactants, crop oils, etc.), nitrogen sources (e.g., AMS, UAN), fertilizers or other pesticides are applied with Dual Magnum.
- Dual Magnum Herbicide will not control emerged weeds.

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 Magnum Herbicide 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 Magnum Herbicide has the potential to contaminate surface water through ground spray 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 draining 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 back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

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

This product must not be mixed or loaded within 50 ft of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product must 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.

PUMPKIN – DUAL MAGNUM HERBICIDE ALONE

Preemergence: Apply Dual Magnum Herbicide at a rate of 1.0 to 1.33 pints/A (0.95-1.27 lb ai/acre) pre-emergence (before the weeds have emerged) to pumpkin. Use the lower Dual Magnum Herbicide rate on soils light in texture (loamy sand or lighter) and low in soil organic matter (less than 3%). If Dual Magnum Herbicide is applied as a broadcast spray over the planted row or hill, injury to the pumpkin crop can occur which may include stand loss, delayed maturity, and even loss of yield. Do not apply Dual Magnum Herbicide after the pumpkin seedlings have emerged.

Dual Magnum Herbicide will not control emerged weeds, and thus should be applied before the weeds emerge. Weeds that are present should be controlled by another means, i.e. by mechanical means or by another herbicide registered for use on pumpkin.

Restrictions: (1) Do not apply Dual Magnum Herbicide after the pumpkin seedlings have emerged. (2) Do not harvest pumpkins for 30 days following the application of Dual Magnum Herbicide. (3) Do not exceed 1.33 pt/A (1.27 lb ai/acre) of Dual Magnum Herbicide per crop. (4) Do not apply during the fall or to frozen soils. (5) Avoid application (use of Dual Magnum on pumpkin) in spring if extended wet and cold weather is expected

Winter Squash

Apply Dual Magnum Herbicide at a rate of 1.0 to 1.33 pints/A (0.95 – 1.27 lb ai/A) pre-emergence (before the weeds have emerged) to winter squash. Use the lower Dual Magnum Herbicide rate on soils light in texture (loamy sand or lighter) and low in soil organic matter (less than 3%).

If Dual Magnum Herbicide is applied as a broadcast spray over the planted row or hill, injury to the winter squash crop can occur. Crop injury may include stand loss, delayed maturity, and even loss of yield. Do not apply Dual Magnum Herbicide after the winter squash seedlings have emerged.

Dual Magnum Herbicide will not control emerged weeds, and thus should be applied before the weeds emerge. Weeds that are present should be controlled by another means, i.e. by mechanical means or by another herbicide registered for use on winter squash.

Precautions: (1) Do not apply Dual Magnum Herbicide after the winter squash seedlings have emerged. (2) Do not harvest winter squash for 30 days following the application of Dual Magnum Herbicide. (3) Do not exceed 1.3 pt/A (1.27 lb ai/A) of Dual Magnum Herbicide per crop.

Summer Squash

Dual Magnum Herbicide may be applied for residual control or suppression of annual grasses, yellow nutsedge and small seeded broadleaf weeds. Dual Magnum Herbicide will not control emerged weeds so use an appropriate registered foliar herbicide or mechanical or physical methods to control emerged weeds.

Application Timing	Crop Growth Stage	Rate (pt/A) ¹	Pre-harvest Interval ²
Preplant ³	Before planting	0.67 - 1.33	30 days
Pre-emergence	Before emergence or transplanting		
Post-emergence	After emergence or transplanting ⁴	0.67 - 1.33	30 days
Post-emergence to row middles			

¹ Use lower rates on coarse-textured soils and higher rates on fine-textured soils

² Time between Dual Magnum Herbicide application and crop harvest

³ No more than 14 days prior to planting

⁴ Must have at least one true leaf

If crops are grown on plastic mulch, the Dual Magnum Herbicide pre-emergence application should be made before laying the plastic. Dual Magnum Herbicide may also be applied as a row middle application after the laying of the plastic mulch.

Dual Magnum Herbicide can also be applied as part of a sequential weed control program. If Dual Magnum Herbicide was applied as a preplant, pre-emergence or pre-transplant treatment, a second treatment of Dual Magnum Herbicide can be applied postemergence provided the total per crop does not exceed 1.33 pt/A.

Precautions: (1) If a pre-plant application is used, soil incorporation is not recommended. Minimize the mixing of herbicide treated soil into the seed furrow through the planting operations, so as to reduce the risk of crop injury. (2) The risk of post-emergence crop injury increases when adjuvants (e.g. non-ionic surfactants, crop oils, etc.), nitrogen sources (e.g. AMS, UAN), fertilizers or other pesticides are applied with Dual Magnum Herbicide.

Restrictions: (1) Do not apply more than 1.33 pt/A (1.27 lb ai/A) of Dual Magnum Herbicide per crop. (2) Do not harvest for 30 days after the application of Dual Magnum Herbicide.

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24(c) Registrant:
Syngenta Crop Protection, LLC
P. O. Box 18300
Greensboro, NC 27419-8300

Label Code: OR0816257AA0220



May 21, 2020

Document Processing Desk (SLN)
Office of Pesticide Programs – 7504
U.S. Environmental Protection Agency
1200 Pennsylvania Ave. NW
Washington, DC 20460-0001

RE: New Special Local Need Registration (SLN) for Dual Magnum® Herbicide

EPA Reg. No. 100-816, SLN No. OR-200003

Active Ingredient: S-metolachlor

Registrant: Syngenta Crop Protection, LLC.

Use Site: Preemergent Grass and Broadleaf Weed Control in Pumpkin,
Winter Squash, and Summer Squash

The Oregon Department of Agriculture (ODA) encloses SLN No. OR-200003, a FIFRA Section 24(c) Special Local Need (SLN) registration to allow for the use of Dual Magnum® (EPA Reg. No. 100-816), for preemergent grass and broadleaf weed control in pumpkin, winter squash, and summer squash.

Preemergent weed control in the cultivation of pumpkin and squash is highly critical to a successful harvest. If certain grass weeds such as nutsedge aren't controlled early in the crop cycle, they pose significant economic threats to the harvest. Growers currently lack an effective chemical control for grass weeds, and are wary of using certain available herbicides because of issues such as carryover and off-site movement.

Enter Dual Magnum, an herbicide adept at controlling grass weeds without the degree of carryover and off-site movement seen in other chemistries. This product has the enthusiastic support of Oregon State University Associate Professor Ed Peachey. Dr. Peachey has conducted research demonstrating both the efficacy of Dual Magnum on grass weeds growing in winter harvested cucurbits, as well as crop tolerance to its uses as defined by the parameters of the enclosed SLN label.

Peachey's trials demonstrated additional benefits in the use of Dual Magnum when tank mixed with other herbicides labeled for winter harvested cucurbits, such as Reflex®, which not only provided control of the pernicious lambsquarters, but the ever tenacious nutsedge as well. This powerful control combination relies on the effectiveness of Reflex against broadleaf weeds on one hand, and the grass weed control capability of Dual Magnum on the other. Additionally, Peachey states that

another positive result of the tank mix combination is the use of less Reflex, subsequently decreasing carry over into the next season.

Under the United States Code of Federal Regulations ([40 CFR 180.368](#)), fall and winter harvested cucurbits in group 9B have a residue tolerance for S-metolachlor of 0.1ppm.

Proper, label-dependent use of this control tool will go a long way to ensuring a successful harvest for pumpkin, winter, and summer squash producers in Oregon. Please do not hesitate to contact me with any questions about this SLN. Thank you, and take care.

Sincerely,

Grant Jackson

Grant Jackson
Pesticide Registration and Outreach
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Enclosures: SLN Label OR-200003
EPA Form 8570-25

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