



**EPA**

Section 24(c) Special Local Need Label

**S-METOLACHLOR GROUP 15 HERBICIDE**

**FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF ILLINOIS**

**Dual Magnum® Herbicide**

**For Weed Control in Asparagus, Garlic, Leek, Green Onion, Transplanted Bell and Non-Bell Pepper, Transplanted Broccoli, Highbush Blueberry, Elderberry, Blackberry, Red and Black Raspberry, Carrot, Cucumber, Broccoli, Chinese Cabbage, Collards, Kale, Mustard Greens, Turnip Greens, Cabbage, Transplanted Eggplant, Garden Beet, Parsnip, Radish, Turnip, Rutabaga, Muskmelon, Cantaloupe, Watermelon, Okra, Dry Bulb Onion, Spinach, Swiss Chard, Winter Squash, Pumpkin, Sweet Potato, Summer Squash, Strawberry**

**EPA Reg. No. 100-816**

**EPA SLN No. IL-190004**

**This label expires and must not be distributed or used in accordance with this SLN registration after December 31. 2029.**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**SYNGENTA'S SPECIAL CONDITIONS, RISKS OF USE AND DISCLAIMER FOR USE OF  
DUAL MAGNUM 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 ILLINOIS**

**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 ON CROPS ON THIS 24(c) LABEL. IF SUCH TERMS AND CONDITIONS ARE UNACCEPTABLE, RETURN THE DUAL MAGNUM AT ONCE UNOPENED OR USE THE DUAL MAGNUM FOR A DIFFERENT APPROVED USE IN ACCORDANCE WITH THE LABEL AFFIXED TO THE PRODUCT CONTAINER.**

**USE OF DUAL MAGNUM (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 Section 24(c) Labeling 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 Section 24(c) Labeling 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 Section 24(c) Labeling, 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 Section 24(c) labeling;
- 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.
- For effective weed control, Dual Magnum Herbicide must be applied to clean-tilled soil.

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## ASPARAGUS

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Apply a single broadcast treatment of Dual Magnum Herbicide at 1.33 - 2.0 pt/A (1.27-1.91 lb ai/A) after the harvest season (i.e. post-harvest treatment), or to dormant established asparagus beds in the spring, prior to asparagus emergence. Within this rate range, use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop. (2) Do not apply more than 2.0 pt/A (1.91 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 1.91 lb ai/A per year of S-metolachlor-containing products to asparagus. (3) Do not harvest asparagus within 16 days of the Dual Magnum Herbicide application.

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## GARLIC (BULB), LEEK, GREEN ONION (FRESH)

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Apply a broadcast application of Dual Magnum Herbicide at 0.67-1.33 pt/A (0.64 – 1.27 lb ai/A) postemergence starting at the two true-leaf stage of the crop. Within that rate range, use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Precautions:** (1) In general, the risk of crop injury is greater on lighter textured soils and with higher application rates. (2) The addition of another registered herbicide as a tank mixture with Dual Magnum Herbicide, will increase the risk of crop injury.

**Restrictions:** (1) Make only one application and apply not more than 1.33 pts/A (1.27 lb ai/A) per year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to garlic, leek, green onion. (2) For leek, do not use on coarse-textured soils with less than 1% OM. (3) Do not harvest within 21 days of the Dual Magnum Herbicide application.

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## TRANSPLANTED BELL AND NON-BELL PEPPER, EXCEPT TABASCO PEPPER

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Apply Dual Magnum Herbicide at a broadcast rate of 0.5-1.0 pt/A (0.48-0.95 lb ai/A) preplant non-incorporated prior to transplanting or broadcast post-emergence application within 48 hours after transplanting. Use lower rates on coarse-textured soils and higher rates on fine-textured soils. Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Precautions:** (1) In general, the risk of crop injury is less with post-transplant applications than from pre-transplant surface applications, and the risk of crop injury is less with post-directed than from post over-the-top applications. To minimize the risk of crop injury, apply as a post-directed spray in a way that minimizes contact with the crop foliage. (2) Preplant incorporated applications are not recommended due to an increased risk of crop injury. (3) Muck soils (>20%) normally require the higher use rate (1.0 pt/A), however, weed control may be reduced on muck soils. (4) The addition of another registered herbicide as a tank mixture with Dual Magnum Herbicide will increase the risk of crop injury from postemergence

applications. (5) The application of Dual Magnum Herbicide prior to bed formation may result in crop injury due to concentration of Dual Magnum Herbicide near the transplanted crop's root system.

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop. (2) Do not apply more than 1.0 pt/A (0.95 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 0.95 lb ai/A per year of S-metolachlor-containing products to bell and non-bell pepper. (3) Do not harvest peppers within 60 days of the Dual Magnum Herbicide application.

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#### **BROCCOLI (TRANSPLANTED)**

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Apply Dual Magnum Herbicide at a broadcast rate of 0.5-1.33 pt/A (0.48-1.27 lb ai/A) preplant non-incorporated prior to transplanting or broadcast postemergence application within 48 hours after transplanting. Use lower rates on coarse textured soils and higher rates on fine textured and muck soils. Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Precautions:** (1) In general, the risk of crop injury from the use of Dual Magnum Herbicide is less with post-transplant applications than from pre-transplant applications, and the risk of crop injury is less with post-directed than from post over-the-top post-transplanting applications. (2) The application of Dual Magnum Herbicide prior to bed formation may result in crop injury due to the incorporation and/or concentration of Dual Magnum Herbicide near the transplanted crop's root system. (3) Muck soils require the higher use rates; however, weed control may be reduced on muck soil. (4) The addition of another registered herbicide, especially the herbicide Goal®, will increase the risk of crop injury from postemergence applications. (5) Chinese varieties are more sensitive to injury from Dual Magnum Herbicide.

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop. (2) Do not apply more than 1.3 pt/A (1.27 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to transplanted broccoli. (3) Do not mechanically incorporate Dual Magnum Herbicide before transplanting. (4) Do not harvest these crops within 60 days of the Dual Magnum Herbicide application.

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#### **Highbush Blueberry, Elderberry**

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Highbush Blueberry, Currant, Elderberry, Gooseberry and Huckleberry: Apply Dual Magnum Herbicide as a banded treatment to both sides of the blueberry row at 0.67 – 1.33 pts/A (0.64 – 1.27 lb ai/A) prior to weed emergence. The application should be directed to the soil surface in a 3 foot band on each side of the blueberry row to avoid direct contact with the crop foliage or crop injury may occur. Use the lower end of the Dual Magnum Herbicide rate range for soils that are relatively coarse textured and higher rates on fine textured soils.

**Precautions:** (1) Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means. (2) Not all blueberry cultivars have been tested so injury may occur on some types of blueberry. Growers are encouraged to treat a few plants as a test and evaluate crop injury. (3) The risk of crop injury from Dual Magnum Herbicide is greater at the higher use rates. (4) Blueberry plants that have been established for less than one year may be more sensitive to applications of Dual Magnum Herbicide than those plants established for more than one year. For this reason, the lower rates are suggested on newer plantings. (5) Tank mixing Dual Magnum Herbicide with other products (pesticides, etc.) will increase the risk for foliar crop injury.

**Restrictions:** (1) Do not make more than one application per crop per season. (2) Do not apply more than 1.33 pt/A (1.27 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to blueberry ad elderberry. (3) Do not harvest for 28 days following the Dual Magnum Herbicide application.

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## **BLACKBERRY, RED AND BLACK RASPBERRY, CULTIVARS AND HYBRIDS OF THESE**

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For summer bearing canes, apply Dual Magnum Herbicide in the early spring as a banded application to both sides of the plant canes at 1.0 – 2.0 pt/A (0.95 – 1.9 lb ai/A) prior to weed emergence. For mowed or fall bearing canes, apply as a banded or broadcast application to bare soil in the spring. The application to summer bearing canes should be directed to the soil surface to avoid direct contact with the crop foliage or crop injury may occur. Use the lower end of the Dual Magnum Herbicide rate range for soils that are relatively coarse textured and the higher rates on fine textured soils.

**Precautions:** (1) Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means. (2) Not all caneberry types, cultivars or hybrids have been tested so injury from Dual Magnum Herbicide may occur on some crops. (3) The risk of crop injury from Dual Magnum Herbicide is greater at the higher use rates. (4) Application of Dual Magnum Herbicide to crop foliage may result in crop injury and illegal residues. (5) Caneberry plants that have been established for less than one year may be more sensitive to applications of Dual Magnum Herbicide than those plants established for more than one year. For this reason, the lower rates are suggested on newer plantings.

**Restrictions:** (1) Do not make more than one application of Dual Magnum Herbicide per crop per season. (2) Do not apply more than 2.0 pt/A (1.9 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 1.9 lb ai/A per year of S-metolachlor-containing products to black berry and red and black raspberry. (3) Do not harvest for 28 days following the Dual Magnum Herbicide application.

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## **CARROT**

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**Attention:** Dual Magnum Herbicide may be applied either preemergent or postemergent to carrot. Do not make both a preemergent and postemergent application to the same crop.

### **Preemergent Application**

Make a single broadcast application of Dual Magnum Herbicide at 0.5 - 1.0 pt/A (0.48-0.95 lb ai/A) pre-emergence (after planting but prior to carrot emergence) to clean-tilled soil. Use lower rates on medium-textured soils and higher rates on fine-textured soils. Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Carrots grown on muck soils (>20% OM):** Make a single broadcast application of Dual Magnum Herbicide at 1.33 to 2.0 pt/A (1.27-1.9 lb ai/A) to the soil surface after planting, but before weeds and crop emerge (i.e., pre-emergence). Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Precautions:** (1) To help avoid crop injury, do not apply Dual Magnum Herbicide in areas where water is likely to "pond".

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop by any application method. (2) Do not apply more than 1.0 pt/A (0.95 lb ai/A) of Dual Magnum Herbicide per year to carrots grown on mineral soils. (3) Do not apply more than 2.0 pt/A (1.9 lb ai/A) of Dual Magnum Herbicide per year to carrots grown on muck soils (>20% OM). (4) Harvest carrots at normal timing. (5) Do not apply more than 1.9 lb ai/A per year of S-metolachlor-containing products to carrots preemergence.

### **Postemergent Application**

Dual Magnum Herbicide may be applied post-emergence to carrot for residual control of grasses and small seeded broadleaf weeds. Apply a single broadcast treatment of Dual Magnum Herbicide at 0.67 to

1.33 pt/A (0.64 – 1.27 lb ai/A) after carrots have between 3-5 true leaves. Within the rate range, use lower rates on medium-textured soils and higher rates on fine-textured soils. Dual Magnum Herbicide will not control emerged weeds, therefore, emerged weeds must be controlled by cultural or chemical methods. The risk of crop injury increases when fertilizers or other pesticides are applied with Dual Magnum Herbicide. For Carrots grown on muck soils (>20% organic matter), apply Dual Magnum Herbicide at 1.33 – 2.0 pt/A (1.27 – 1.9 lb ai/A).

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop per year by any application method. (2) Do not apply more than 1.33 pt/A (1.27 lb ai/A) of Dual Magnum Herbicide per year to carrots grown on mineral soils. (3) Do not apply more than 2.0 pt/A (1.9 lb ai/A) of Dual Magnum Herbicide per year to carrots grown on muck soils (>20% OM). (4) Do not harvest less than 64 days after application.

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## CUCUMBER

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**Soil Applied:** Apply a single broadcast treatment of Dual Magnum Herbicide at 0.67 to 1.0 pt/A (0.64 – 0.95 lb ai/A) to the soil surface after planting, but before weeds or crop emerge (i.e., pre-emergence). Within the rate range, use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils.

**Post Applied:** Dual Magnum Herbicide may be applied post-emergence to cucumber for residual control of grasses and small seeded broadleaf weeds. Apply a single broadcast treatment of Dual Magnum Herbicide at 0.67 to 1.0 pt/A (0.64 – 0.95 lb ai/A) after cucumbers have between 1-2 true leaves. Within the rate range, use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. Dual Magnum Herbicide will not control emerged weeds, therefore, emerged weeds must be controlled by cultural or chemical methods. The risk of crop injury increases when nitrogen sources (e.g. AMS, UAN), fertilizers or other pesticides are applied with Dual Magnum Herbicide.

**Restrictions:** (1) Do not apply more than 1.0 pt/A (0.95 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 0.95 lb ai/A per year of S-metolachlor-containing products to cucumber. (2) Make only one application per crop. (3) Do not harvest within 30 days of application.

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## BROCCOLI (RAAB), CHINESE CABBAGE (BOK CHOY), COLLARDS, KALE, MUSTARD GREENS, AND TURNIP GREENS

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**Soil Applied:** Apply a single broadcast treatment of Dual Magnum Herbicide at 0.67 to 1.33 pt/A (0.64 – 1.27 lb ai/A) to the soil surface after planting, but before weeds or crop emerge (i.e., pre-emergence). Within the rate range, use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered herbicide or by mechanical or physical means.

**Post Applied:** Dual Magnum Herbicide may be applied post-emergence for residual control of grasses and small seeded broadleaf weeds. Apply a single broadcast treatment of Dual Magnum Herbicide at 0.67 to 1.33 pt/A (0.64 – 1.27 lb ai/A) after crop has between 1-2 true leaves. Dual Magnum Herbicide will not control emerged weeds, therefore, emerged weeds must be controlled by cultural or chemical methods. The risk of crop injury increases when 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 pts/A (1.27 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to broccoli raab, Chinese cabbage, collard, kale, mustard and turnip greens. (2) Make only one application per crop. (3) Do not harvest within 30 days of application.

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## CABBAGE

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Apply Dual Magnum at a broadcast rate of 0.5 - 1.33 pt./A (0.48-1.27 lb ai/A) preplant non-incorporated prior to transplanting or broadcast postemergence application within 48 hours after transplanting. Use lower rates on coarse textured soils and higher rates on fine textured and muck soils. Dual Magnum will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Precautions:** (1) In general, the risk of crop injury from the use of Dual Magnum is less with post-transplant applications than from pre-transplant applications, and the risk of crop injury is less with post-directed than from post over-the-top post-transplanting applications. (2) The application of Dual Magnum prior to bed formation may result in crop injury due to the incorporation and/or concentration of Dual Magnum near the transplanted crop's root system. (3) Muck soils require higher use rates; however, weed control may be reduced on muck soil. (4) The use of a spray adjuvant, or the addition of another reregistered herbicide, especially the herbicide Goal will increase the risk of crop injury from postemergence applications. (5) Chinese varieties are more sensitive to injury from Dual Magnum.

**Restrictions:** (1) Make only one application of Dual Magnum per crop. (2) Do not apply more than 1.33 pt/A (1.27 lb ai/A) of Dual Magnum per year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to cabbage. (3) Do not mechanically incorporate Dual Magnum before transplanting. (4) Do not harvest these crops within 60 days of the Dual Magnum application.

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## TRANSPLANTED EGGPLANT

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Apply a broadcast application of Dual Magnum Herbicide at 0.5-1.33 pt/A (0.48-1.27 lb ai/A) prior to transplanting or as a broadcast application within 48 hours after transplanting. Use lower rates on coarse-textured soils and higher rates on fine-textured and muck soils. Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Precautions:** (1) In general, the risk of crop injury is greater on lighter textured soils and with higher application rates. (2) Do not mechanically incorporate before transplanting. (3) The use of another registered herbicide as a tank mixture with Dual Magnum Herbicide will increase the risk of crop injury.

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop. (2) Do not apply more than 1.33 pt/A (1.27 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to eggplant. (3) Do not harvest eggplant within 60 days of the Dual Magnum Herbicide application.

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## GARDEN BEET, PARSNIP, RADISH, TURNIP, RUTABAGA

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Make a single broadcast application of Dual Magnum Herbicide at 0.67 - 1.0 pt/A (0.64-0.95 lb ai/A) preplant incorporated, preplant surface applied, or preemergence to clean-tilled soil. Use lower rates on coarse-textured soils and higher rates on fine-textured soils. If the soil organic matter is 20% or greater (muck soils), use Dual Magnum Herbicide at a rate up to 1.33 pt/A (1.27 lb ai/A). In general, the risk of crop injury from the use of Dual Magnum Herbicide is greater from preplant incorporated than from preplant non-incorporated or preemergence applications. Irrigate after application to activate the herbicide if rainfall is not expected, but use only 0.5 inches of water to incorporate the herbicide.

**Precautions:** (1) Excessive irrigation will increase the risk of crop injury. (2) Mechanical incorporation of Dual Magnum Herbicide will increase the risk of crop injury. (3) It is recommended not use Dual Magnum Herbicide if the planting operation creates a furrow or trough over the seed-row into which rain or irrigation water will collect and thus concentrate the herbicide over the row. (4) Not recommended on

coarse textured soils with less than 1.5 % OM, as use in these soils increases the risk of crop injury. (5) In soils with greater than 10% organic matter, weed control may be reduced.

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop. (2) Do not apply more than 1.3 pt/A (1.27 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to garden beet, parsnip, radish, turnip, rutabaga. (3) Harvest these crops at normal timing.

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## **MUSKMELON/CANTALOUPE AND WATERMELON**

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### **Melons Grown on Plastic Mulch:**

Apply Dual Magnum Herbicide as a row middle application (between the crop rows) at 0.67 – 1.27 pt/A (0.64 – 1.21 lb ai/A) before crop emergence or transplanting, before weed emergence, but after the laying of the plastic mulch.

### **Melons Grown Without Plastic Mulch:**

Apply Dual Magnum Herbicide as a broadcast, pre-emergence treatment at 0.67 – 1.27 pt/A (0.64 – 1.21 lb ai/A) before crop emergence or before transplanting and before weed emergence. Use the lower end of the Dual Magnum Herbicide rate range for soils that are relatively coarse textured and the higher rates on fine textured soils.

Dual Magnum Herbicide may also be applied as a banded application (between the crop row) at 0.67 – 1.27 pt/A (0.64 – 1.21 lb ai/A) before crop emergence or before transplanting and before weed emergence.

**Precautions:** (1) Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means. (2) If an activating rainfall (0.5") does not occur within 7-10 days following application, weed control may be reduced. (3) Irrigation water can be applied following the treatment of Dual Magnum Herbicide to activate the herbicide and improve weed control. (4) The risk of injury to melons is greater with a broadcast pre-emergence application than with a row middle application. (5) In general, the risk of crop injury will be less with transplanted melons than with direct seeded melons. (6) Direct application of Dual Magnum Herbicide to emerged melon foliage (from seed or transplant) may result in crop injury and illegal residues. (7) It is recommended not to mechanically incorporate Dual Magnum Herbicide into the soil as this will increase the risk for crop injury. (8) Muck soils require the higher use rates; however, weed control may still be reduced on muck soil.

**Restrictions:** (1) Do not make more than one application of Dual Magnum Herbicide per crop per year. (2) Do not apply more than 1.27 pts/A (1.21 lb ai/A) of Dual Magnum Herbicide per crop per year. Do not apply more than 1.21 lb ai/A per year of S-metolachlor-containing products to muskmelon, cantaloupe, watermelon. (3) Harvest at normal maturity but no closer than 60 days following application.

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## **OKRA**

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Apply Dual Magnum Herbicide as a post-directed treatment at 1.0 – 2.0 pt/A (0.95 – 1.90 lb ai/A) after the okra is 4 inches tall but before weeds emerge. The application should be directed to minimize the amount of spray that contacts the crop foliage or crop injury may occur. Use the lower end of the Dual Magnum Herbicide rate range for soils that are relatively coarse textured and higher rates on fine textured soils.

Dual Magnum Herbicide may also be applied as a row middle application (between the crop rows) at 1.0 – 2.0 pt/A (0.95 – 1.9 lb ai/A) after the okra is 4 inches tall and before weed emergence.

**Precautions:** (1) Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means. (2) Excessive irrigation or rainfall (1-2") following application may result in an increased risk for crop injury. (3) Applications of Dual Magnum Herbicide prior to okra emergence or prior to okra reaching 4 inches in height will increase the risk for significant crop injury. (4) If the okra crop treated with Dual Magnum Herbicide is lost or destroyed, replanting okra into the treated zone may result in crop injury.

**Restrictions:** (1) Do not make more than one application of Dual Magnum Herbicide per crop per season. (2) Do not apply more than 2.0 pt/A (1.9 lb ai/A) of Dual Magnum Herbicide per crop per year. Do not apply more than 1.9 lb ai/A per year of S-metolachlor-containing products to okra. (3) Do not harvest okra within 60 days following the application of Dual Magnum Herbicide.

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#### ONION, DRY BULB

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Apply Dual Magnum Herbicide at 0.67 - 1.33 pt/A (0.64-1.27 lb ai/A) broadcast starting at the two true-leaf stage of onions. Use lower rates on coarse-textured soils and higher rates on fine-textured soils. One additional application may be applied 21 or more days after the first application, if needed. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Dual Magnum Herbicide will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Precautions:** (1) In general, the risk of crop injury is greater on lighter textured soils and with higher application rates. (2) The addition of another registered herbicide as a tank mixture with Dual Magnum Herbicide will increase the risk of crop injury.

**Restrictions:** (1) Make no more than two applications of Dual Magnum Herbicide per year. (2) Apply not more than 1.3 pt/A (1.27 lb ai/SA) in a single application and not more than 2.67 pt./A (2.54 lb ai/A) per year. Do not apply more than 2.54 lb ai/A per year of S-metolachlor-containing products to dry bulb onion. (3) The Dual Magnum Herbicide applications cannot be less than 21 days apart. (4) Do not harvest onions within 60 days of the Dual Magnum Herbicide application. (5) The harvest of green onions for and the grazing of animals on green forage or stubble are prohibited.

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#### SPINACH

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Make a single broadcast application of Dual Magnum Herbicide at 0.33 - 1.0 pt/A ((0.31-0.95 lb ai/A) to clean-tilled soil before weeds or crop emerge (i.e., preemergence). Use lower rates on coarse-textured soils and higher rates on fine-textured soils.

**Precautions:** (1) To help avoid crop injury, it is recommended that the Dual Magnum Herbicide not be mechanically incorporated. (2) Not recommended on muck soils due to probable poor weed control at these rates. (3) For irrigated spinach, irrigate with sprinkler or furrow irrigation within two days of Dual Magnum Herbicide application.

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop. (2) Do not apply more than 1.0 pt/A (0.95 lb ai/A of Dual Magnum Herbicide per year. Do not apply more than 0.95 lb ai/A per year of S-metolachlor-containing products to spinach. (3) Do not harvest spinach within 50 days of the Dual Magnum Herbicide application.

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#### SWISS CHARD

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Apply a single broadcast application of Dual Magnum Herbicide at 0.5 to 1.0 pt/A (0.48-0.95 lb ai/A) to the soil surface after planting, but before weeds or crop emerge (i.e., preemergence). Use lower rates on relatively coarse-textured soils and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Dual Magnum Herbicide will

not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**Precautions:** (1) In general, the risk of crop injury is greater on lighter textured soils and with higher application rates.

**Restrictions:** (1) Make only one application of Dual Magnum Herbicide per crop. (2) Do not apply more than 1.0 pt/A (0.95 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 0.95 lb ai/A per year of S-metolachlor-containing products to Swiss chard. (3) Do not harvest Swiss chard within 62 days of the Dual Magnum Herbicide application. (4) Do not apply as a tank mixture with nitrogen fertilizer solutions, or with other pesticides.

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## **WINTER SQUASH**

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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 year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to winter squash.

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## **PUMPKIN**

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### **Preemergence**

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 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/A) of Dual Magnum Herbicide per year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to pumpkin. (4) Do not apply during the fall or to frozen soils.

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## SWEET POTATO

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### Sweet Potato Application Information

For post-transplant, preemergence use in sweet potatoes only. Apply 1.0 to 1.33 pints/acre (0.95-1.27 lb ai/acre) broadcast rate of Dual Magnum Herbicide after the sweet potatoes have been transplanted, but before the target weeds have emerged. Do not incorporate the Dual Magnum Herbicide following application.

Use the lower Dual Magnum Herbicide rate on the more coarse-textured soils. Injury risk is higher on sands and loamy sands, especially if a heavy rainfall event occurs shortly after application. If irrigation will be used on the sweet potato crop, do not apply more than 0.5 inches of water for the first irrigation event following the application of Dual Magnum Herbicide.

To help avoid concentrating Dual Magnum Herbicide over the top of the sweet potato transplants, fill the transplanter trench prior to applying the Dual Magnum Herbicide by running a rolling cultivator, or similar devise, behind the transplanter. The transplanter trench must be closed prior to the application of Dual Magnum Herbicide.

Apply Dual Magnum Herbicide in a minimum of 10 gallons of water per acre.

**Restrictions and Precautions:** 1) **Do not** incorporate Dual Magnum Herbicide following application. 2) **Do not** apply Dual Magnum Herbicide in a way that allows the herbicide to be concentrated over the transplanted row -- this includes soil or water movement into the transplanter trench, or toward the row, following application. 3) **Do not** apply through any type of irrigation system. 4) Make only one Dual Magnum Herbicide application to sweet potatoes per growing year. Do not apply more than 1.27 lb ai/A per year of S-metolachlor-containing products to sweet potato. 5) Do not harvest sweet potatoes within 60 days of a Dual Magnum Herbicide application.

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## SUMMER SQUASH

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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) <sup>1</sup>	Pre-harvest Interval <sup>2</sup>
Preplant <sup>3</sup>	Before planting	0.67 - 1.33 (0.64-1.27 lb ai/A)	30 days
Pre-emergence	Before emergence or transplanting	0.67 - 1.33 (0.64-1.27 lb ai/A)	30 days
Post-emergence	After emergence or transplanting <sup>4</sup>	0.67 - 1.33 (0.64-1.27 lb ai/A)	30 days
Post-emergence to row middles			

<sup>1</sup> Use lower rates on coarse-textured soils and higher rates on fine-textured soils

<sup>2</sup> Time between Dual Magnum Herbicide application and crop harvest

<sup>3</sup> No more than 14 days prior to planting

<sup>4</sup> 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 (1.27 lb ai/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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#### **STRAWBERRY (ANNUAL AND PERENNIAL)**

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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) <sup>1</sup>	Pre-harvest Interval <sup>2</sup>
Preplant <sup>3</sup>	Before transplanting	0.67 - 1.33 (0.64-1.27 lb ai/A)	30 days
Pre-emergence	Dormant before emergence in spring		
Post-emergence	After emergence from dormancy or after transplanting	0.67 - 1.33 (0.64-1.27 lb ai/A)	30 days
Post-emergence to row middles			
Renovation	After harvest	0.67 - 1.33 (0.64-1.27 lb ai/A)	30 days

<sup>1</sup> Use lower rates on coarse-textured soils and higher rates on fine-textured soils

<sup>2</sup> Time between Dual Magnum Herbicide application and crop harvest

<sup>3</sup> No more than 14 days prior to transplanting

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 be applied as part of a sequential weed control program. If Dual Magnum Herbicide was applied as a pre-transplant treatment, a second treatment of Dual Magnum Herbicide can be applied postemergence provided the total per crop does not exceed 2.5 pt/A (2.4 lb ai/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 in a single application. (2) Do not apply more than 2.5 pt/A (2.4 lb ai/A) of Dual Magnum Herbicide per year. Do not apply more than 2.4 lb ai/A per year of s-metolachlor-containing products to strawberry (3) Do not harvest for 30 days after the application of Dual Magnum Herbicide.

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