

# Sysstem™ -MG

## Science-Driven Nutrition<sup>SM</sup>

Sysstem™-MG is a foliar magnesium fertilizer which can be used at all plant growth stages to correct magnesium deficiencies but is particularly effective early season when plant demand for magnesium peaks. The elemental magnesium in Sysstem™-MG is linked to a unique translocating mobility-ion that enhances the nutrient uptake and mobility within the plant. Sysstem™-MG's special form makes it significantly more effective than standard foliar magnesium products that have limited uptake and plant availability. Proper nutrient balance is critical to maintaining overall plant health and for proper physiological development.

As the central element in chlorophyll, magnesium is critical in effective chlorophyll development and thus photosynthesis. Peak demand timing for magnesium is early season as leaf and chlorophyll development occurs. Because zinc is critical in leaf development and size, magnesium and zinc are synergistic nutrients and are needed simultaneously. Sysstem™-ZN and Sysstem™-MG are compatible and designed to work together. Utilizing these two Sysstem™ products together helps establish the plant factory that is necessary in any crop to support, size and deliver quality fruit at harvest.

Sysstem™-MG is part of Agro-K's Sysstem™ foliar line. Sysstem™ products are designed to work together to maximize crop quality. They are compatible with each other and most pesticides, making them easy to integrate into spray programs.

### Guaranteed Analysis

Magnesium (Mg) - 5%

### Derived From

Magnesium derived from Magnesium Carbonate

### Availability

2.5 and 250 gallon

### Directions For Use

Sysstem-MG is intended for foliar use only. Foliar: Apply 1 to 5 quarts per acre with sufficient water for thorough coverage. Spray in early morning or late afternoon. Do not apply during the "sunlight" hours when air temperature is above 85° F/30° C. Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact Agro-K before using this product. Sysstem-MG is compatible with many fertilizers and pesticides, but compatibility checks are recommended before mix. If mixing Sysstem-MG with other products, dilute Sysstem-MG in a full spray tank first before adding other products. Sysstem-MG should not be mixed with pesticides or other products that are sensitive to low pH solutions.

**Suggested Uses**

**Tomatoes, Peppers, Cucumbers**

Apply 1 to 2 quarts per acre per application. Apply the first application 7 days after transplanting, thinning or at second true leaf stage. Apply subsequent applications at 10-14 day intervals as needed to correct deficiencies or supplement nutritional requirements.

**Lettuce, Spinach and Other Leafy Vegetables as well as Broccoli, Cauliflower and Other Brassica Varieties**

Apply 1 to 2 quarts per acre per application. Apply the first application 7 days after transplanting, thinning, or at second true leaf stage. Apply one or two subsequent applications at 10 to 14 day intervals or as needed to supplement nutritional requirements.

**Corn, Beans and Peas**

Apply 1 to 2 quarts per acre per application. A first application can be ground applied with starter fertilizers if carefully mixed in a dilute solution (contact Agro-K for more information). Otherwise, apply the first application at the second or third leaf. Apply one to two subsequent applications at 10 to 14 day intervals or as needed to supplement nutritional requirements.

**Strawberries**

Apply 1 to 2 quarts per acre per application. Apply the first application 7-10 days after transplanting. Reapply at 7-14 day intervals through first bloom. Sysstem™-MG is compatible with Sysstem™-ZN and can be applied together. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Potatoes, Onions and Other Vegetable Root, Bulb or Tuber Crops**

Apply 1 to 5 quarts per acre per application. Apply the first application 2-3 weeks post emergence. Apply a subsequent application at hooking, plus two more applications at 14 day intervals.

**Nut Crops**

Apply 1 to 4 quarts per acre per application. Apply first application at bud break. Apply a subsequent application pre-bloom. Reapply Sysstem™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-MG is compatible with Sysstem™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Blueberries**

Apply 1 to 3 quarts per acre per application. Apply first application post-bloom as leaves are developing rapidly. Apply 1 or 2 subsequent applications as needed. Reapply Sysstem™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-MG is compatible with Sysstem™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Plums, Peaches, Cherries and Other Stone Fruits**

Apply 1 to 3 quarts per acre per application. Apply first application post-bloom as leaves are developing rapidly. Apply 1 or 2 subsequent applications as needed. Reapply Sysstem™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-MG is compatible with Sysstem™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Apples, Pears and Other Pome Fruits**

Apply 1 to 4 quarts per acre per application. Apply first application at green tip or bud break. Apply 1 to 2 subsequent applications pre-bloom.

Reapply Sysstem™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-MG is compatible with Sysstem™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Citrus and Avocados**

Apply 1 to 4 quarts per acre per application. Apply first application pre-bloom. Apply subsequent applications post-harvest.

**Grapes**

Apply 1 to 2 quarts per acre per application. Apply first application between budbreak and 6" of shoot growth. Apply 1-2 subsequent applications between early shoot development and bloom. Reapply Sysstem™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-MG is compatible with Sysstem™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

**Raspberries, Blackberries and Other Caneberries**

Apply 1 to 2 quarts per acre per application. Apply first application after bud break and reapply pre-bloom. Reapply Sysstem™-MG within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-MG is compatible with Sysstem™-ZN and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

