

*Signature*  
brand fertilizer



# StarPhite<sup>®</sup>

## Micro Mag Man 5-20\*-0

### Soil and Foliar Nutrient

GUARANTEED ANALYSIS

Total Nitrogen (N).....	5.00%
5.00% Nitrate Nitrogen.....	
Total Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ).....	20.00%
Magnesium (Mg).....	2.00%
Manganese (Mn).....	3.00%

Derived From: Phosphorous Acid, Magnesium Nitrate and Manganese Nitrate.

\*Phosphorous acid products are for use as a supplemental fertilizer treatment.

\*Upon foliar application, the phosphite ions are taken up directly by the plant foliage and may undergo a degree of conversion to phosphate ions, or will be used directly by plants, as phosphite ions.

\*As a soil application to annual crops, a lesser response from the initial crop, with a corresponding superior response from succeeding crops, may be observed. In addition, placement close to seeds or root zones may be injurious to crops. The effect may be aggravated by a soil pH below 6.5.



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**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

F1548

FOR COMMERCIAL OR PROFESSIONAL USE ONLY



GUARANTEED BY:

Loveland Products, Inc.\* • PO BOX 1286 • GREELEY CO 80632-1286

DENSITY 10.43 LBS./GALLON @ 68° F

NET WEIGHT 52.15 LBS. (23.66 kg)

**LIQUID MEASURE 2 x 2.5 US GALLONS (9.46 L)**

Starphite MicroMagMan5-20\*-0\_CA\_AZ F2811 product code: 7104296



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F1548

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GUARANTEED BY:

Loveland Products, Inc. • PO BOX 1286 • GREELEY CO 80632-1286

**DENSITY 10.43 LBS./GALLON @ 68° F**

**NET WEIGHT 26.08 LBS. (11.83 kg)**

**LIQUID MEASURE 2.5 US GALLONS (9.46 L)**

Starphite\_MicroMagMan5-20\*-0\_CA\_AZ\_F2811

#### General Information

StarPhite® Micro Mag Man 5-20\*-0 is a foliar nutrient for use on a variety of crops. When applied according to label directions, it may be beneficial to plant growth, crop yield and quality. StarPhite Micro Mag Man 5-20\*-0 contains no available phosphate. Foliar fertilization is intended as a supplement to regular fertilization programs and may not, by itself, provide the nutrients normally required by crops or other intended plants. StarPhite Micro Mag Man 5-20\*-0 may be applied by air or with all types of ground spraying equipment.

#### Application Information

For aerial application, apply 1 to 4 pints per acre in a minimum of 10 gallons of water per acre.

For ground application, apply 1 to 4 pints per acre. Do not exceed a product concentration of 2% v/v maximum.

For 1 pint/acre rate add to 6 ¼ gallons of water per acre

For 2 pints/acre rate add to 12 ½ gallons of water per acre.

For 3 pints/acre rate add to 18 ¾ gallons of water per acre.

For 4 pints/acre rate add to 25 gallons of water per acre.

#### Directions for Use

##### *Field Crops, Vegetable Crops, and Other Crops*

**Beans and Peas:** Apply 1 to 4 pints per acre per application. Make first application after transplanting, thinning, or at second true leaf stage. Make 1 to 2 subsequent applications at 10 to 15-day intervals or as needed to supplement nutritional requirements.

**Lettuce, Spinach and other leafy vegetables:** Apply 1 to 4 pints per acre per application. Make first application after transplanting, thinning, or at second true leaf stage. Make 1 to 2 subsequent applications at 10 to 15-day intervals or as needed to supplement nutritional requirements.

**Cucumbers, Melons, and other Cucurbits:** Apply 1 to 4 pints per acre per application. Make first application after transplanting, thinning, or at second true leaf stage. Make 1 to 2 subsequent applications at 10 to 15-day intervals or as needed to supplement nutritional requirements.

**Broccoli, Cauliflower, and other Brassica varieties:** Apply 1 to 4 pints per acre per application. Make first application after transplanting, thinning, or second true leaf stage. Make 1 or 2 subsequent applications at 10 to 15-day intervals or as needed to supplement nutritional requirements.

**Potato, Onion, and other Vegetable Root, Bulb, or Tuber Crops:** Apply 1 to 4 pints per acre per application. Make first application at second true leaf stage. Make 1 or 2 subsequent applications at 10 to 15 day intervals or as needed to supplement nutritional requirements.

**Caneberries, Blackberries, Raspberries, etc.:** Apply 1 to 4 pints per acre per application. Make first application pre-bloom with subsequent applications at 30-day intervals up to harvest or as needed to supplement nutritional requirements.

**Strawberries:** Apply 1 to 4 pints per acre per application. Make the first application after transplanting. Apply at 30-day intervals or as needed to supplement nutritional requirements.

**Wine Grapes:** Apply 1 to 4 pints per acre per application. Make first application 2 weeks prior to bloom. Make subsequent applications at pre-bunch closing, veraison, and 2 to 3 weeks prior to harvest or as need to supplement nutritional requirements.

**Table Grapes:** Apply 1 to 4 pints per acre per application. Make a single application 2 weeks prior to bloom. Do apply after bloom.

**Hops:** Apply 2 to 4 pints per acre per application. Make first application at 1 – 4 inches of shoot growth. Make additional applications at 8 – 10 inches of shoot growth and 5 – 6 feet after trellising, and during bloom and as needed to supplement nutritional requirements.

**Corn and Wheat:** Apply 1 to 4 quarts per acre for foliar use.

**Olives:** Apply 1 to 4 pints per acre per application. Make first application 2 to 3 weeks pre-bloom with subsequent applications at petal fall and at 3- day intervals up to harvest or as needed to supplement nutritional requirements.

**Tomatoes and Peppers:** Apply 1 to 4 pints per acre per application. Make first application after transplanting, thinning, or at second true leaf stage. Make subsequent applications at 10 to 14-day intervals or as needed to supplement nutritional requirements.

##### *Turf, Golf Course Greens, and Fairways*

**Cool Season Grasses:** Apply 3 to 5 ounces / 1000 sq. ft. in a minimum spray volume of 2 gallons of water. Apply at 14-day intervals during active growth periods.

**Warm Season Grasses:** Apply 3 to 5 ounces / 1000 sq. ft. in a minimum spray volume of 2 gallons of water. Apply at 14-day intervals from mid-spring to late fall. Continue subsequent applications at 4 to 5 week intervals for the remainder of the year.

**Tees and Fairways:** Apply 3 to 5 ounces / 1000 sq. ft. in a minimum spray volume of 2 gallons of water. Apply during active growth periods.

**Golf Greens:** Depending on grass type, follow suggested use rates for either Cool or Warm Season Grasses.

##### *Conifers and Deciduous Woody Ornamentals*

**Unrooted cuttings, Propagation:** Apply 0.3% v/v solution, momentarily submerge cuttings in solution prior to planting.

**Seedlings:** Apply 0.1% v/v solution, momentarily submerge entire seedling tray in solution.

**Transplanting:** Apply 0.1% v/v solution. Apply as a foliar spray to seedling tray prior to transplanting.

**Maintenance, Growth, and Development:** Apply 0.1% - 0.3% v/v solution. Apply as a foliar spray with subsequent applications at 10 to 14-day intervals or as needed to supplement nutritional requirements.

**Outdoor plantings and resets:** Apply 0.5% v/v solution: Apply up to 2 gallons of solution to the root zone of each plant once plants are set (2 pints for small shrubs; 2 gallons for large shrubs). Apply 0.1% - 0.3% v/v solution: Make additional foliar applications on a 10 to 14 day spray interval as needed to supplement nutritional requirements.

**NOTE:** Applications should be discontinued during dormancy. First seasonal application should be at bud emergence. Last application should be applied just prior to the onset of senescence. For foliar applications, DO NOT EXCEED a product spray concentration of 0.1% - 0.3% v/v depending upon the growing location and/or environment of the plant. When using a 0.3% solution of StarPhiteMicro Mag Man 5-20\*-0, use a maximum of 4 gallons of spray solution per 1,000 sq. ft.

**Propagation:** Apply 0.3% v/v solution. Make first foliar spray application at second true leaf stage. Make subsequent applications at 10 to 14-day intervals or as needed to supplement nutritional requirements.

**Transplanting and Establishment:** Apply 0.1% v/v solution, momentarily submerge seedling tray in solution OR apply as a foliar spray prior to transplanting.

**Maintenance, Growth, and Development:** Apply 0.1% - 0.3% v/v solution. Apply as a foliar spray. Make subsequent applications at 10 to 14-day intervals or as needed to supplement nutritional requirements.

**Transporting:** Apply 0.1% - 0.3% v/v solution 5 to 7 days prior to shipment, make a foliar spray application to each plant.

**NOTE:** FOR FOLIAR APPLICATIONS DO NOT EXCEED a product spray concentration of 0.1% to 0.3% v/v depending on growing location and/or environment of the plants. When using a 0.3% v/v solution of **StarPhite Micro Mag Man 5-20\*-0**, use a maximum of 4 gallons of spray solution per 1,000 sq. ft.

#### **Trees and Tree Farms (Christmas Trees; Park Plantings)**

**New Plantings and Resets:** Apply 0.5% v/v solution, once trees are set in the ground, apply up to 2 gallons of solution to the root zone of each tree. Make additional foliar applications of 2 pints per acre at 2-week intervals during the growing season. Make a minimum of 2 foliar applications per season. **StarPhite Micro Mag Man 5-20\*-0** may be applied as a tank mix partner with foliar fungicide or insecticide applications.

**Maintenance:** Apply 0.5% v/v solution. Make foliar applications of 2 pints per acre at 2-week intervals during the growing season. Make a minimum of 2 foliar applications per season. **StarPhite Micro Mag Man 5-20\*-0** may be applied as a tank mix partner with foliar fungicide and/or insecticide applications. **NOTE:** Apply when plants are actively growing. DO NOT EXCEED a maximum product spray concentration of 2.0% v/v.

#### **Permanent Crops**

**Almonds, Walnuts, and other nut crops:** Apply 1 to 4 pints per acre per application. Make first application at green tip. Make subsequent applications at 30-day intervals up to nut fill or as needed to supplement nutritional requirements.

**Plums, Nectarines, and other Stone fruits:** Apply 1 to 4 pints per acre per application. Make first application at green tip. Make subsequent applications at 30-day intervals up to pit hardening or as needed to supplement nutritional requirements.

**Apples, Pears, and other Pome fruits:** Apply 1 to 4 pints per acre per application. Make first application at green tip. Make subsequent applications at 30-day intervals up to harvest or as needed to supplement nutritional requirements.

**Kiwi:** Apply 1 to 4 pints per acre per application. Make first application pre-bloom. Make subsequent applications at 30-day intervals up to harvest or as needed to supplement nutritional requirements.

**Citrus and Avocados:** Apply 1 to 4 pints per acre per application. Make first application pre-bloom. Make subsequent applications at 30-day intervals up to harvest or as needed to supplement nutritional requirements.

#### **Cut Flowers**

**Propagation:** Apply 0.3% v/v solution, momentarily submerge cuttings in solution prior to planting.

**Transplanting and Establishment:** Apply 0.1% v/v solution, momentarily submerge entire seedling tray in solution or apply as a foliar spray prior to transplanting.

**Maintenance, Growth, and Development:** Apply 0.1% v/v to 0.3% v/v solution. Apply as a foliar spray with subsequent applications at 10 - 14 day intervals or as needed to supplement nutritional requirements.

**Cut Flower Shipment:** Apply 0.1% v/v solution. Cut flowers may be treated with solution 2-3 days prior to harvest OR dipped in solution after harvest and prior to shipping.

**NOTE:** For foliar applications, DO NOT EXCEED a product spray concentration of 0.1% - 0.3% v/v depending upon the growing location and/or environment of the plant. When using a 0.3% solution of **StarPhite Micro Mag Man 5-20\*-0**, use a maximum.

**Irrigation System Application:** **StarPhite Micro Mag Man 5-20\*-0** can be substituted for foliar applications described above through irrigation systems and can be applied through sprinkler (solid set, hand move, walking, wheel roll) or low volume (micro sprinkler, drip, fanjet) irrigation systems. The specific injection equipment and irrigation system must conform to all Federal, State, and local regulations pertaining to the fertilization of plants through an irrigation system and should be calibrated accurately prior to any application. The irrigation system should be operated to achieve maximum distribution uniformity to avoid plant injury and/or ineffectiveness. For best results, apply **StarPhite Micro Mag Man 5-20\*-0** toward the end of any irrigation cycle allowing sufficient time for the product to be flushed out of the entire irrigation system before turning off the irrigation water.

#### **STORAGE and DISPOSAL**

**STORAGE:** Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed by storage or disposal. **DISPOSAL:** Do not reuse container. Triple-rinse (or equivalent), adding rinse water to spray tank, then offer for recycling at an AGRC site (go to <http://www.agrecycle.org/locations>) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food, or feed by storage or disposal. **HANDLING:** Avoid breathing fertilizer mists. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after handling this product.

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**  
BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. 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, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. makes no other warranty, express or implied, including but not limited to merchantability or fitness for a particular purpose. The buyer's or user's exclusive remedy for any injury, loss, or damage resulting from the handling or use of this product shall be limited to one of the following, at the election of LOVELAND PRODUCTS, INC. or the seller: direct damages not exceeding the purchase price of the product or replacement of the product. LOVELAND PRODUCTS, INC. and the seller shall not be liable to the buyer or user of this product for any consequential, special, or indirect damages, or damages in the nature of a penalty.

Information regarding the contents and levels of metals in this product is available on the Intefhet at <http://www.regulatory-info-lpi.com>

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

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