



# MICREL TOTAL 5-0-0

*With S, Mg, B, Cu, Fe, Mn, Mo, AND Zn*  
**A TOTAL LIQUID MICRONUTRIENT PACKAGE**

- **FOR TURF, TREE CARE, NURSERY & GREENHOUSE**
- **FOLIAR SPRAY TO CORRECT CHLOROSIS**

**GUARANTEED ANALYSIS:**

Total Nitrogen (N) . . . . .	5%
5% Urea Nitrogen	
Magnesium (Mg) . . . . .	0.5%
0.5% Water Chelated Magnesium (Mg)	
Sulfur (S) Combined . . . . .	4%
Boron (B) . . . . .	0.02%
Copper (Cu) . . . . .	0.5%
0.5% Chelated Copper (Cu)	
Iron (Fe) . . . . .	6%
6% Chelated Iron (Fe)	
Manganese (Mn) . . . . .	0.5%
0.5% Water Chelated Manganese (Mn)	
Molybdenum (Mo) . . . . .	0.0005%
Zinc (Zn) . . . . .	0.5%
0.5% Chelated Zinc (Zn)	
Derived From: Ferrous Sulfate, Manganese Sulfate, Copper Sulfate, Zinc Sulfate, Magnesium Sulfate, Sodium Borate, Sodium Molybdate, Urea. Chelating Agent: Citric Acid.	
Weight per gallon . . . . .	11.65 lbs.
Weight per liter . . . . .	1.39 kg
pH . . . . .	2

**PRODUCT DESCRIPTION:**

Micrel Total is a true solution containing eight chelated micronutrients used to correct deficiencies (chlorosis) in turf, trees, ornamentals and bedding plants. Micrel Total is completely miscible in water. The unique citrate / nitrogen chelate bond eliminates any flush growth or budding. All nutrients are available either by foliar or root feeding, and can be applied throughout the growing season with no concern of phytotoxicity. Micrel Total aids in resistance to disease, winter desiccation and tolerance to stress. Chlorotic plants will respond within 48 hours with a deeper, healthier green. Bentgrass turf will respond within 24 hours and maintain a residual green for 2 to 3 weeks. Micrel Total can be sprayed along with herbicide applications to reduce yellowing. Micrel Total is compatible with other technical materials.

**APPLICATION RATES:**

**Tees & Greens / Fairways & Lawns:** Micrel Total is best applied starting in early spring when turf is actively growing. Continue to apply 4 or more applications annually. Sand tees and greens require monthly applications. Late fall application will improve winter hardiness and help prevent winter desiccation. See table for proper rates.

**Trees & Ornamentals:** Proper maintenance of trees and ornamentals in high stress urban areas requires regular application of micronutrients. Nutrient deficient chlorotic foliage can be corrected by foliar spraying; however, soil application should also be

- **EIGHT CHELATED MICROS**
- **IMPROVES COLOR**
- **FOLIAR & ROOT ABSORBED**

part of a regular maintenance program.

Turf Application		
Application	Rate	Frequency
Tees, Greens, All Types of Warm and Cool Season Grasses	3 - 4 oz per 1,000 sq. ft. in 3-5 gal of water (90-120 ml / 100m <sup>2</sup> )	Apply every 14-21 days
Fairways	3 - 4 oz. per 1,000 sq ft in 5 gallons of water (90-120 ml / 100m <sup>2</sup> )	Apply every 30 days

Trees, Shrubs & Ornamentals:	
<b>Foliar Spray:</b>	1 - 2 qts in 100 gallons of water (250 - 500 ml in 100 L water)
<b>Soil Drench:</b>	Corrective: 3 ounces per inch of trunk DBH in 2 gallons of water. Thoroughly drench soil under canopy (90 ml per 8 L water)  Maintenance: 2 oz per inch of trunk DBH in 2 gallons of water (60 ml per 8 L water)

**Acid-Loving Plants:** Chlorosis is a common ailment of acid-loving plants, especially when soil pH is above 7 or below 5. Micrel Total can be used for foliar spray or root application and will supply all essential minor elements in their soluble forms for immediate uptake. Mix 1 - 2 ounces in one gallon for foliar spray or for soil drench. Use one gallon of Micrel Total in 200 gallons of water for foliar feeding of Rhododendron's, Azaleas, Camellias, Evergreens, Pin Oaks and White Pines. Thoroughly drench the leaves.

**Greenhouse Applications - Correction of Micronutrients Deficiencies & Maintenance of Micronutrient Levels**

Plant Type:	Application Rate:
All types of greenhouse crops, plugs, annuals, hanging baskets, perennials, vegetables	Foliar Spray: 1 - 2 quarts per 100 gallons of water (1-2 L per 400 L water)  Drip Irrigation & Overhead Irrigation: Set injector to 50 PPM of Nitrogen (67 ml per L water at 1:100 ratio)

\*\* Add color, produce chlorophyll and pick up plant quality

### BEDDING PLANTS & PERENNIALS:

Micrel Total can be applied to Impatiens, Chrysanthemums, Geraniums and all plant materials to correct minor deficiencies and produce lush green leaves with no concern of phytotoxicity. Mix 3 oz. in 3-5 gal. of water and thoroughly spray plant.

#### Nursery Applications

Application	Rate	Notes
Containerized Crops, Woody Ornamentals, Flowering Ornamentals in Shadehouse or Greenhouse, Foliage, Field-Grown Nursery Stock And Trees	Foliar Spray: 1-2 quarts per 100 gal of water (250-500 ml 1-2 L in 100 L water)	Thoroughly spray to point of run-off. Apply every 2-4 weeks.

#### PPM Chart Micrel Total 5-0-0

Fluid Ounces of Micrel Total per Gallon of Stock Tank Water				
PPM Nitrogen	25	50	75	100
PPM Iron	30	60	90	120
PPM Mg, Cu, Mn, Zn	3	5	8	10
1:500	23	46	70	93
1:300	14	28	42	56
1:200	9	18	28	37
1:100	5	9	14	19
1:50	2	5	7	9
1:15 Ratio for Hozon Proportioner				
1:15	0.70	1.39	2.09	2.78

### STORAGE & HANDLING:

Micrel Total can be stored in normal warehouse areas. DO NOT FREEZE.

**Dilution / Mixing:** Dilute tank mix with water prior to adding Micrel Total. Never mix concentrate technical materials together, always dilute first with water. Be sure to read all labels carefully. Always provide sufficient water. Be sure each product is mixed well before adding next product. Do a jar test to assure compatibility.

**CAUTION:** This is an acidic material. Keep out of reach of children. In case of contact with eyes, flush immediately with copious amounts of water. Contact a physician. Do not take internally.

Manufactured By:

