



MICREL TOTAL 5-0-0

With EIGHT CHELATED MICRONUTRIENTS

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

GUARANTEED ANALYSIS: F106

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)	0.0002%
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.

PRODUCT SPECIFICATIONS:

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

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

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 ²)	Apply every 14-21 days
Fairways	3 - 4 oz. per 1,000 sq ft in 5 gallons of water (90-120 ml / 100m ²)	Apply every 30 days

Trees, Shrubs & Ornamentals:	
Foliar Spray	1 - 2 qts in 100 gallons of water (250 - 500 ml in 100 L water)
Soil Drench	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)

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 gal. of water (250-500 ml per 100 L water)
Containerized Crops, Woody & Flowering Ornamentals, Foliage, Field-Grown Nursery Stock And Trees Applications	Foliar Spray: 1-2 quarts per 100 gal of water. Thoroughly spray to point of run-off. Apply every 2-4 weeks. (250-500 ml in 100 L water)
** Add color, produce chlorophyll and increase plant quality	

micronutrients. Nutrient deficient chlorotic foliage can be corrected by foliar spraying; however, soil application should also be part of a regular maintenance program.

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.

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.

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.

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

FIRST AID	
IF SWALLOWED:	Call a poison center or doctor if you feel unwell: Rinse mouth.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
IF ON SKIN:	Remove contaminated clothing and wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
IF INHALED:	Call a poison center or doctor if you feel unwell.
You may also contact 1-800-992-5994 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101), Keep out of reach of children (P102), Read label before use (P103).	
STORAGE: Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets.	
DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	

The following precautionary statements and pictograms are based on The Globally Harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)

WARNING

 H315 Causes Skin Irritation
H319 Causes Serious Eye Irritation
H335 May Cause Respiratory Irritation

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

Manufactured in the USA By:

