

TURF & ORNAMENTAL



Micrel Total 5-0-0

- Corrects Micronutrient Deficiencies
- Maintains Balanced Micronutrients

Net Contents: 2.5 Gallon (9.46 Liter)
Net Weight: 28.58 lbs (12.96 kg)

Micrel Total 5-0-0

F002873

OPEN
Resealable
Label

Guaranteed Analysis:

Total Nitrogen (N)	5%
5% Urea Nitrogen (N)	
Magnesium (Mg)	0.5%
0.5% Water Soluble Magnesium (Mg)	
Sulfur (S)	4%
4% Combined Sulfur (S)	
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% Chelated Manganese (Mn)	
Zinc (Zn)	0.5%
0.5% Chelated Zinc (Zn)	

Derived From: Ferrous Sulfate, Manganese Sulfate, Copper Sulfate, Zinc Sulfate, Magnesium Sulfate, Boric Acid, Urea, Iron Citrate, Manganese Citrate, Copper Citrate, Zinc Citrate

Product Specifications:

Weight per gallon	11.43 lbs.
Weight per liter	1.37 kg
pH	1.92

Product Description:

Micrel Total is a product that contains 6 chelated micro-nutrients. Micrel Total is designed to be absorbed quickly and contains chelated iron for use on multiple species of plants.

Condition of Sale and Warranty: Douglas Plant Health, Inc. 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 Douglas Plant Health 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 DOUGLAS PLANT HEALTH, INC OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

Information about the components of this lot of fertilizer may be found by writing to Douglas Plant Health, 1550 E. Old 210 Hwy, Liberty, MO 64068 and giving the lot number which is found on the packaging.

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.

FIRST AID: Get medical advice/attention if you feel unwell.	
IF SWALLOWED:	Call a poison center or doctor. Rinse mouth. Get medical advice/attention if you feel unwell.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN:	Wash with plenty of water and soap. Take off contaminated clothing and wash before reuse. If skin irritation persists: Get medical advice/attention.
You may also contact 1-352-323-3500 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 containers tightly closed in a dry, cool and well-ventilated space.	
DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	
Dispose of contents/container to an approved waste disposal plant.	
HANDLING: Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Do not breath dust/fumes/gas/mist/vapors/spray. Very toxic to aquatic life with long lasting effects.	

The following precautionary statements and pictograms are based on the Globally Harmonized System of classification and labeling of chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA).



Warning

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure



Douglas Plant Health

1550 E. Old 210 Highway
Liberty, MO 64068
(800) 648-7626

www.DouglasPlantHealth.com



Turf Applications

Application	Rate	Frequency/ Notes
Tees, Greens, All Types of Warm and Cool Season Grasses	0.75 - 4 oz per 1,000 sq. ft. in .5-2 gallons of water (20-120 ml / 100 m ²)	Apply every 7-21 days
Fairways	0.75 -1.5 oz. per 1,000 sq ft in .5-2 gallons of water (20-120 ml / 100 m ²)	Apply every 7-28 days

Tree, Shrub & Ornamental Applications

Foliar Spray	1 pint – 1 qt in 50-100 gallons of water (475 - 950 ml in 200-375 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 Micronutrient Deficiencies & Maintenance of Micronutrient Levels

Plant Type	Application Rate
All types of greenhouse crops, plugs, annuals, hanging baskets, perennials, vegetables	Foliar Spray: 1/2-2 pints per 50-100 gal of water (235-950 ml) per 200-375 L water 8 oz – 32 ounces per gallon stock tank with injector ratio of 1:100
Containerized Crops, Woody & Flowering Ornamentals, Foliage, Field-Grown Nursery Stock And Trees Applications	Foliar Spray: 1/2-2 pints per 50-100 gal of water (235-950 ml) per 200-375 L water Thoroughly spray to point of run-off. Apply every 2-4 weeks.

Landscape Planting Applications

Foliar Spray	1 - 2 quarts in 100 gallons of water (500 ml - 1 liter in 100 liters water)
Soil Drench	2 - 5 ounces per gallon of water. Thoroughly drench soil around area (16 - 39 ml in 1 liter water)

Greenhouse & Nursery Injection Ratio

Injector Ratio	PPM Desired	Rate per gallon stock tank to deliver desired PPM
1:100	50 PPM Nitrogen 60 PPM Iron 5 PPM Mg, Cu, Mn, Zn	20 oz per gallon stock tank

NOTE: DO NOT APPLY NEAR WATER, STORM DRAINS, OR DRAINAGE DITCHES. DO NOT APPLY IF HEAVY RAIN IS EXPECTED. APPLY THIS PRODUCT ONLY TO YOUR LAWN/GARDEN, AND SWEEP ANY PRODUCT THAT LANDS ON THE DRIVEWAY, SIDE-WALK, OR STREET, BACK ONTO YOUR LAWN/GARDEN.

Crop Programs

Plant / Crop	Application Rate
Berries	Use 1 - 2 quarts per acre. Thoroughly wet leaves to run off. (2 - 5 liters per hectare)
Citrus Trees	Use 1 - 2 quarts per acre. Thoroughly wet leaves to run off. (2 - 5 liters per hectare)
Fertigation	Apply 1 - 2 quarts per acre via drip tape or low volume irrigation. (2 - 5 liters per hectare)
Foliar Spray: Tomatoes, Small Fruit, Grapes and Other Vegetables	Use 1 - 2 quarts, in a minimum of 20 gallons of water, with ground spray equipment. Apply at least 6 times per season to correct minor nutrient deficiencies. Wet leaves to run off. (2 - 5 L per 200 L water)
Greenhouse & Shadehouse	Apply 8 oz - 1 qt per 100 gallons water as foliar spray (63 - 250 ml per 100 liters water)
Nut Trees	Use 1 - 2 quarts per acre. Thoroughly wet leaves to run off. (2 - 5 liters per hectare)
Tropical Fruits	Use 1 - 2 quarts per acre. Thoroughly wet leaves to run off. (2 - 5 liters per hectare)