

# MICROP SL

The Biotech Answer for Saline Soils

MICROP-SL is a composition of selected salt tolerant cyanobacteria (blue-green algae). These colonize the soil surface by cell division. Once the colony reaches maturity in 4-6 weeks, a complex of organic acids is produced which are effective in freeing sodium in the soil.



These hardy microorganisms work by manufacturing organic compounds that infiltrate the soil profile. The residues are instrumental in liberating calcium carbonate complexes in the soil mineralogy. The mobile calcium will replace the sodium on the exchange sites. To remove the supplanted sodium, leaching of the soil by irrigation water is recommended. The leaching process should follow MICROP-SL application by about 40-60 days.



MICROP-SL's microalgae can also contribute to the nutritional status of the soil through nitrogen fixation. Research data also suggests the ability of these microbes to solubilize rock phosphate, making phosphorous more available to the growing crop. The combination of these results, with the reduction in exchangeable sodium, makes MICROP-SL the ideal method to handle tough soil fertility problems on saline soils.

DISTRIBUTED BY:



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## TECHNICAL DATA

### **DOSAGE:**

One ounce per acre (70 grams per ha.) mixed with water and sprayed on the soil surface with spray equipment.

### **APPLICATION TIMING:**

Apply one to four times per year at 30-60 day intervals as is fitting for the weather and crop cultural practices. A general rule of thumb to follow is to employ a single application of MICROP SL for every 30 pounds per acre (34 Kg/Ha) reduction in “actual” chemical nitrogen.

### **APPLICATION METHOD:**

Mix dry product in water and apply with any liquid spray equipment (aerial or ground).

### **TANK MIXING:**

Soil Technologies does not recommend that MICROP SL be mixed with other chemical products. However, The company has found that MICROP SL cells remain viable when mixed with certain chemicals and fertilizers. Before attempting to tank mix, consult with Soil

Tech staff for a current listing of compatible chemicals.

### **TEMPERATURE:**

The microalgae in MICROP SL propagate readily when outside daytime air temperatures are between 45-95°F (7-35°C). The microalgae become inactive (they do not die) when the air temperatures are below 45°F (7°C) or above 95°F (35°C).

### **MOISTURE REQUIREMENTS:**

The top 5 inches (12.7 cm.) of soil must be above approximately 40% field capacity to support microalgae cell division in the top one inch (2.5 cm.) of soil. The cells revert to dormancy (they do not die) when the field moisture capacity is below 40%.

### **SHELF LIFE:**

Expiration date is 2 years from the date of packaging.

