

# CHEM-SOL

WATER SOLUBLE FERTILIZER

## 28-8-18

TURFGRASS PREMIUM

### USE SUGGESTIONS:

Chem-Sol water soluble fertilizers are concentrated dry fertilizers which must be dissolved in water to prepare for application. Once Chem-Sol is in solution it is immediately available to the turfgrass. Chem-Sol fertilizers obtain best results with a pulse feeding program which is comprised of measured and frequent applications (or pulses) which will promote uniform and consistent growth by providing optimum nutrition over the growing season. The pulse feeding method is superior to single heavy fertilization applications because pulse feeding provides a more constant and uniform level of available plant nutrients at the desired levels.

**Pulse Feeding:** Use 1/8 to 1/4 lb. of nitrogen (N) per 1000 square feet every week to ten days or as needed. Rate and amount of water needed will depend on soil moisture levels, turf species and weather conditions. Avoid spraying during hot, bright light conditions or when turf is drought stressed.

Lbs N / 1000 Ft <sup>2</sup>	1/8	1/4	1/2	1
Ounces / 1000 Ft <sup>2</sup>	7	14	28	56

- Turf and Fairways - Apply once a week for maximum growth or once a month to maintain fertility.
- Greens and Tees - Apply once a week.

### Sprayer Application:

- Sprayer application is normally 1 pound of product in 5 to 20 gallons of water.
- Concentrated Sprayer Solution: This formula may be applied in a concentrated solution of 1 pound of product to 2 or 3 gallons of water, with thorough irrigation immediately after application to rinse off leaf surface. Fertilizer burn and turf damage may occur if concentrated fertilizer solutions are left on the leaf surface too long.

**Fertigation** is the injection of a fertilizer solution through the irrigation system which will provide nutrients during the irrigation cycle. Use maximum of two pounds of product per gallon of stock solution. The recommended feeding rate is 200 to 400 ppm (N) nitrogen, depending on desired response. Adjust nitrogen ppm levels accordingly.

ppm N	100	200	300	400
EC(mS/cm)	0.21	0.43	0.64	0.86

**Soil Testing:** A complete soil analysis will indicate any potential problem areas such as pH or a deficiency or excess of specific nutrients. Ultrasol Water Soluble Fertilizers are formulated to cover a broad range of soil conditions and the nutritional needs of most commonly used turfgrasses. However, abnormal soil conditions often need corrective action such as liming, etc to insure maximum benefit from the fertilizer program.

**Compatibility:** Do not combine this material with fertilizers containing calcium or magnesium in spray tank as precipitation and clogging may occur. When using with other products such as herbicides and pesticides in same tank always perform a "jar" test in advance of making tank mix by making a small batch of materials to be used in a small clear container and observe for formation of any material that could clog screens or spray nozzles.



MANUFACTURED FOR:  
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Net Weight 25 lbs (11.35 kg)

### PRODUCT DESCRIPTION:

This formulation is produced specially for the nutritional needs of turfgrasses. A superb fertilizer for lawns, greens, tees, and fairways. The nutrition package in this formula helps turfgrasses tolerate heavy traffic, and frequent mowing. Two types of Iron provide nutrient availability over a wide range of water pH.

### GUARANTEED ANALYSIS:

Total Nitrogen (N)	28%
1.0% Ammoniacal Nitrogen	
4.8% Nitrate Nitrogen	
22.2% Urea Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	8%
Soluble Potash (K <sub>2</sub> O)	18%
Boron (B)	0.01%
Copper (Cu)	0.01%
0.01% Chelated Copper (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese	
Molybdenum (Mo)	0.001%
Zinc (Zn)	0.02%
0.02% Chelated Zinc	

### DERIVED FROM:

Potassium Nitrate, Urea, Ammonium Phosphate, Iron EDDHA, Iron EDTA, Manganese EDTA, Copper EDTA, Zinc EDTA, Boric Acid, Sodium Molybdate. **F1252**

**POTENTIAL ACIDITY:** 760 lbs calcium carbonate equivalent per ton.

**SOLUBILITY (max.):** 2 lbs per gallon in cold water. Hot water and agitation improve solubility.