

# CHEM-SOL

WATER SOLUBLE FERTILIZER

## 13-2-13

PRODUCE AND ORNAMENTAL PREMIUM

### PRODUCT DESCRIPTION:

13-2-13 is a high nitrate-nitrogen formula with potassium, calcium, and magnesium for improved quality and color. Two types of chelated iron provide nutrient availability over a wide range of water pH.

### GUARANTEED ANALYSIS:

Total Nitrogen (N)	13%
0.3% Ammoniacal Nitrogen	
12.7% Nitrate Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2%
Soluble Potash (K <sub>2</sub> O)	13%
Calcium (Ca)	6.0%
Magnesium (Mg)	3.0%
3.0% Water Soluble Magnesium (Mg)	
Boron (B)	0.02%
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 (Mn)	
Molybdenum (Mo)	0.001%
Zinc (Zn)	0.015%
0.015% Chelated Zinc (Zn)	

### DERIVED FROM:

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

**POTENTIAL BASICITY:** 370 lbs calcium carbonate equivalent per ton

**SOLUBILITY (max.):** 3 lbs per gallon.

**Fertilizer required per volume of concentrate, 13-2-13 (for continuous liquid feed programs):**

ppm N	50	75	100	200
E.C. (mmhos/cm)	0.41	0.61	0.81	1.63
injector ratio	ounces/gal			
15 (hazon)	0.78	1.17	1.56	3.12
50	2.60	3.89	5.19	10.38
100	5.19	7.79	10.38	20.77
128	6.65	9.97	13.29	26.58
200	10.38	15.58	20.77	41.54

E.C. values are approximate. Use E.C. levels to verify appropriate feeding level from the injector. Adjust for the E.C. of the irrigation water. For concentrations greater than 200 ppm, simply add. Ex.: 400 ppm = 2 X 200 ppm = E.C. 3.26 and 6.24 oz/gal with 1:15 proportioner.

### USE SUGGESTIONS:

- For plugs, transplants, and seedlings feed at 50 to 150 ppm once per week depending on growth stage.
- For tomatoes, peppers, and most flowering bedding plants, feed at 100 to 200 ppm N with constant liquid feeding. Use 200 to 400 ppm N for pulse feeding.

- Store this and all water soluble fertilizer formulas in a dry place. Tightly seal open bag to prevent product hardening.
- Agitate well to dissolve completely. Use hot water for faster results.
- Use soil and water tests to determine the best concentrations and rates to use.

### SAFETY INSTRUCTIONS:

For safety instructions refer to the material safety data sheet or call 1-888-960-3073

**WARNING.** MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION.

- Avoid contact with eyes, skin, and clothing
- Wash thoroughly after handling
- Avoid breathing dust
- Do not swallow

### FIRST AID:

IN CASE OF CONTACT WITH EYES, IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN. IMMEDIATELY RINSE FROM SKIN. WASH CLOTHING BEFORE REUSE.

### SPILLS AND DISPOSAL:

If spilled, absorb with an inert, non-combustible material and remove for disposal. Dispose of all waste in accordance with applicable government regulations.

**FOR PROFESSIONAL USE ONLY.  
KEEP OUT OF REACH OF CHILDREN.**

MANUFACTURED FOR:

**CNI AGRIMINERALS**  
PO BOX 3706  
ALBANY, GA. 31706  
(229) 883-5538

NET WEIGHT 25 LBS. (11.35 KG)

**GENERAL DIRECTIONS:**