



# QuickStart 4-14-12-4S

## GUARANTEED ANALYSIS

Total Nitrogen (N) not less than.....4%  
Available Phosphorus Acid (P<sub>2</sub>O<sub>5</sub>).....14%  
Available Potash (K<sub>2</sub>O).....12%  
Sulfate (SO<sub>4</sub>).....4%

## TYPICAL ANALYSIS

Nitrogen, as N.....4.03%  
Phosphorus, as P<sub>2</sub>O<sub>5</sub>.....14.05%  
Potash, as K<sub>2</sub>O.....12.05%  
Zinc, as Zn.....0.0%  
Iron, as Fe<sub>2</sub>O<sub>3</sub>.....0.35%  
Aluminum, as Al<sub>2</sub>O<sub>3</sub>.....0.30%  
Magnesium, as MgO.....0.09%  
Fluoride, as F.....0.08%  
Sulfate, as SO<sub>4</sub>.....4.00%  
Calcium, as CaO.....0.01%

## TYPICAL PROPERTIES

pH.....6.6 - 6.8  
Specific Gravity.....1.37  
Lbs./Gallon.....11.46  
Salt out temperature.....<10°F  
Gallons/Ton.....175  
Salt Index.....18  
Color.....Light Green  
Water Solubility.....100%  
O/P ratio.....35/65

## GENERAL INFORMATION

QuickStart 4-14-12-4S is manufactured by combining anhydrous ammonia, phosphoric acid, and potassium sulfite. It can be applied to most vegetable and field crops, deciduous fruit and nut trees, grapes, olives and citrus. It may be used for foliar or soil applications or applied through a drip system. QuickStart 4-14-12-4S works well as a foliar spray on most crops. It has high orthophosphate content. QuickStart 4-14-12-4S may be used in small quantities as a starter fertilizer to stimulate seedling growth under adverse growing conditions (cold temperatures and excess moisture). Results from using QuickStart 4-14-12-4S will be influenced by differences in varieties, soil and environmental conditions and should be applied under conditions of optimum plant growth. Optimum conditions are defined as adequate humidity, moderate temperatures, and adequate soil moisture. Information regarding the contents and level of metals in this product is available by calling 1-315-789-5550.

## MIXING INSTRUCTIONS

QuickStart 4-14-12-4S disperses well in water with a minimum of agitation. For best results mix as follows:

1. Partially fill tank with water or fertilizer and start agitation
2. Add Quick Start 4-14-12-4S to circulating tank mix.
3. Add other pesticides or nutrients if compatible.
4. Fill tank and agitate thoroughly.

## DIRECTIONS FOR USE

### FOLIAR APPLICATION RATES

**Vegetable and Field Crops. Deciduous Fruit and Nut Trees. Grapes.**

**Olives and Citrus:** Apply 1 to 3 gallons per acre in a minimum of 5 gallons of water per acre. Repeat applications may be beneficial. Use of a surfactant may enhance leaf coverage and increase nutrient absorption. Do not apply when the crop is excessively stressed for moisture or during periods of high temperatures.

**Note:** for best results use the lowest possible volume for thorough coverage and a small droplet size. Optimum foliar application conditions for most crops generally occur during early morning or late evening hours. Foliar fertilization is intended as a supplement to a regular fertilization program and will not, by itself provide all the nutrients normally required by agricultural crops.

### SOIL APPLICATION RATES

**Vegetables:** For sprinkler irrigated fields, spray or dribble directly over the seed at planting. For furrow irrigated fields, inject directly below the seed row 1 to 2 inches deep. Use 2 to 4 gallons QuickStart 4-14-12-4S per acre. May be diluted with water.

### **Cotton - Corn - Melons and all other crops, Seeded Into Moist Soil:**

Inject 1 inch to 2 inches directly below or to the side of the seed line. Use 3 to 8 gallons of QuickStart 4-14-12-4S per acre. May be diluted with water. QuickStart 4-14-12-4S may be seed row (directly on the seed) applied on certain crops. Refer to the following table for rate instructions.

## **Recommendations for Seed Row Placement**

Soil Conditions				
CROP	CEC:15 or > OM:2.5% or >	CEC:12 to 14.9 OM:2.0 to 2.4%	CEC:6-11.9 OM:.6 - 1.9%	CEC: <6.0 OM: <0.6%
Maximum Suggested Application Rate in Gallons per Acre				
Corn (30" rows)	6	5	4	Inquire about row application in soils that fall within this group
Milo (30" rows)	5	4	3	
Soybeans Row Spacing 10" or less	5	4	3	
11"-16"	3	2	0	
17" or more	0	0	0	
Wheat, Barley and Rye	8	7	6	
Oates	6	5	4	
New Alfalfa	6	5	4	
Potatoes	7	7	7	
Sugar Beets	3	3	3	

Western States: Areas west of the North-South line formed by US Highway 1 and Interstate 35 (west of 97 Longitude West of Greenwich) should consult their local agronomic professional or Liquid Products, LLC. for appropriate rates.

## **ATTENTION**

Always check compatibility with other products prior to use. QuickStart 4-14-12-4S is not compatible with products such as salts of heavy metals like magnesium, copper, manganese, zinc and iron compounds. Do not mix with calcium based fertilizers. Do not apply directly on the seed in saline, alkali, salty or coarse textured soils. Since weather, crops, soil and other conditions may vary, Liquid Products, LLC. and/or the Seller make no warranty of any kind, expressed or implied concerning the use of this product. The user assumes all risk of use and handling whether or not in accordance with directions or suggestions.

**WARNING: Keep out of reach of children, harmful if swallowed, avoid contact with skin, eyes, or clothing.**

Personal protection: Use rubber gloves and chemical safety goggles when handling this product.

NFPA Hazard of 2,0,1

Conditions to avoid: Excessive heat

Materials to avoid: Acids and strong oxidizers.

Materials of Decomposition: ammonia, unknown materials of partial combustion/decomposition.

Store: Keep material in a cool, dry, well-ventilated area. Keep containers closed and do not allow to freeze. Containers may build up a slight pressure. Keep away from children.

Fire: Material will not burn as formulated.

In case of spill or leak: Contain spill and ventilate area. Absorb with clay, vermiculite, chemical boom, or pad. If clay is used, material may be applied as a fertilizer. If booms or pads are used, dispose of material in accordance with local, state, and federal regulations.

## **FIRST AID**

Eyes: May cause severe irritation or corneal damage. Immediately flush eyes with large quantity of water for 15:30 minutes. Get medical attention immediately.

Skin: May cause moderate skin irritation, redness, or burning sensation. May aggravate pre-existing skin conditions. Wash skin with soap and water for 15:30 minutes. Get medical attention if symptoms persist. Wash contaminated clothing before reuse. Inhalation: Vapor or mist inhalation may cause temporary bronchitis, pharyngitis, or edema. Move person to fresh air and get medical attention if breathing is difficult. Preexisting respiratory disorders may be aggravated. Ingestion: May cause corrosion to the esophagus and stomach. Have fluids ready and call poison control or get immediate medical attention. Do not induce vomiting!

Emergency Phone: Chemtrec 1-800-424-9300 (24 hours a day)

NETWEIGHT: Bulk Shipment