



pHusion Organic Acid 30% Carbon

Acidifies water. Destroys bicarbonates. Frees soil bonded Calcium and Magnesium.

Guaranteed Analysis

Calcium (Ca)..... 1.00%
Sulfur (S)..... 1.50%

Non-Plant Food Ingredients

Calcium Lignosulfonate and Lignosulfonic Acid act as a complexing and binding agent.

Carbon..... 30.00%
HPLC Sugars 10.00%

pHusion Organic Acid is a modified organic acid derived from Lignin, a natural and renewable raw material that contains carbon and sugars. It acidifies irrigation water; improves water penetration; helps free up bound nutrients in alkaline soil and supplies Carbon to soil microorganisms.

pHusion Organic Acid combines the unique properties of lignin and organic acids. **pHusion Organic Acid** provides the benefits of dissolving Bicarbonates and lowering pH. The lignin complex acts as a buffering agent against corroding metals which allows **pHusion Organic Acid** to be applied with conventional spraying equipment, or as an injected through an irrigation system. Lignosulphonate molecule displays most of the properties attributed to humus present in soils: It is a source of plant nutrients due to the carbon and sulfur present in the **pHusion Organic Acid** molecule

Benefits:

- Acidulates irrigation water to improve water penetration into the soil.
- Destroys bicarbonates, which frees calcium to help build good soil structure and prevent soil from sealing over.
- Reduces the incidence of localized dry spots (reduces use of wetting agents).
- Improves fertilizer efficiency by solubilizing nutrients tied up in alkaline soils.
- Increases water use efficiency (reduces water use) by improving water
- Improves efficiency of alkaline sensitive pesticides.

■ Weight per gallon: 10.20 lbs (4.62kg)

■ Each gallon contains:
3.06 lb. Carbon
1.02 lb. HPLC Sugars
.10 lb. Calcium
.15 lb. Sulfur

■ pH: 2.6



PLANT FOOD COMPANY, INC.
The Liquid Fertilizer Experts

Directions for Use:

Stabilize irrigation water pH and scale control for continuous injection treatment, inject 12 - 16 oz. of **pHusion Organic Acid** in every 1000 gallons of irrigation water with hardness of 3,500 ppm and pH of 7.5. Adjust injection rate based on titration test of irrigation water's hardness and water pH.

Cleaning Drip Irrigation Lines

Injection rates are determined by water alkalinity and water pH. Inject sufficient amounts of **pHusion Organic Acid** to reduce irrigation water pH to 3. Maintain water in system for a minimum of 30 minutes. In the absence of a titration test, inject 4 to 8 quarts per acre per hour for one hour once a month.

Greens, Tees and Fine Turf: Apply 2 oz. per 1,000 sq. ft. (88 oz. per Acre) once or twice per month. Apply in spray tank with a minimum of 2 gallons per 1,000 sq. ft. (87 gallons per Acre). For best results, irrigate after application to work **pHusion Organic Acid** solution into the soil.

Fairways & Sports Turf: Apply 1/2 - 1 gallon per Acre (1.5 - 3 oz/1,000 sq. ft.) once or twice per month throughout the growing season. Irrigate after applying to move **pHusion Organic Acid** into the soil.

Releasing Tied Up Micronutrients (Complexing Agent): Many cation based, non-chelated micronutrients (i.e. ferrous sulfate, manganese sulfate, magnesium sulfate, etc) can become tied up in soils. Applications of **pHusion Organic Acid** with these micronutrients "complexes" them, and allows them to be more available to the plant. Apply 12 - 24 oz. of **pHusion Organic Acid** for every lb. of micronutrient. (Example: For 10 lbs. of **32% Manganese Sulfate**, this represents 3.2 lbs of actual Manganese. Apply 39 - 78 oz. of **pHusion Organic Acid** to improve availability.

Application Rates for pHusion Organic Acid 30% Carbon

Fluid Oz/ 1,000 sq. ft.	Gallons/ One Acre	ML/ 1,000 sq. ft.	Calcium/ 1,000 sq. ft.	Sulfur/ 1,000 sq. ft.
1.0 oz	0.3 Gal	30 ML	0.0008	0.0012
1.5 oz	0.5 Gal	44 ML	0.0012	0.0018
2.0 oz	0.7 Gal	59 ML	0.0016	0.0024
3.0 oz	1.0 Gal	89 ML	0.0024	0.0036
4.0 oz	1.4 Gal	118 ML	0.0032	0.0048
6.0 oz	2.0 Gal	177 ML	0.0048	0.0072

Tank Mixing Information:

Prior to any fertilizer or pesticide application, all spray mixing and application equipment must be cleaned. A quality tank cleaner is recommended. Carefully observe all cleaning directions on the pesticide and fertilizer label. Fill the spray or mix tank at least 3/4 full of water and begin agitation. Add pesticides and/or fertilizers as directed by labeling or in the following sequence:

- 1) Dry flowables or water dispersible granules, 2) Wettable powders, 3) Flowables,
- 4) Emulsifiable concentrates, 5) Water based solutions, 6) Compatibility agents,
- 7) Micronutrients and Fertilizers, 8) Spray adjuvants

Before mixing multiple chemicals and/or fertilizers in the tank, confirm product compatibility by performing a jar test. Be sure to mix with plenty of water.

Caution:

Keep away from children and domestic animals. Avoid contact with eyes, open cuts, or sores. Harmful if swallowed. External: Flood with water. Internal: Induce vomiting. Contact a physician immediately.

Storage and Handling:

Store in a cool, dry place. Keep container tightly closed. Do not add water or other material to the container. Do not contaminate water, food, or feed by storage or disposal. Do not store near acids or other acidic materials.

Store above 40° F. Do not allow to freeze.

Available Container Sizes:

2 x 2.5 gal (2 x 9.46 L) Case
30 gal (113.56 L) Drum
55 gal (208.20 L) Drum
275 gal (1040.99 L) Tote

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