

# **PH REDUCER**

**A CITRIC ACID SOLUTION WITH NATURAL ORGANIC WETTING AGENT**



**GROWTH<sup>®</sup>**  
**PRODUCTS**  
*THE LIQUID SOLUTIONS COMPANY*

**ORGANIC WAY TO ADJUST PH**

Net Wt. 23.75 lbs. (10.77 kg)

*Shake Well Before Using*

2 1/2 Gallons (10 Liters)



## PH REDUCER

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

50% .....	Citric Acid
0.0025%	Natural Wetting Agent (Yucca schidigera)
49.9975% .....	Inert Ingredients
pH .....	1.5
Weight per gallon .....	9.5 lbs.

### PRODUCT DESCRIPTION:

pH Reducer is a safe alternative to phosphoric and sulfuric acids for lowering water, soil and soilless media pH into a more acidic range. Citric Acid solution is manufactured from food grade citric acid and can be used to neutralize or acidify water and soils & improve micronutrient uptake. Contains a natural wetting agent, Yucca, to help the citric acid quickly penetrate the soil or growing media.

### TANK MIX BUFFER SOLUTION:

Many herbicides and fungicides require an acidic tank mix solution to ensure the best efficacy. Be sure to slowly add citric acid to a tank mix and check with a pH meter or litmus paper until the desired pH is reached.

### EQUIPMENT & TANK CLEANING:

#### FIRST AID

<b>IF SWALLOWED:</b>	Call a poison center or doctor if you feel unwell. Rinse mouth.
<b>IF IN EYES:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
<b>IF ON SKIN:</b>	Remove contaminated clothing and wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
<b>IF INHALED:</b>	Call a poison center or doctor if you feel unwell.

You may also contact 1-800-992-5994 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101). Keep out of reach of children (P102), Read label before use (P103).

**STORAGE:** Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets.

**DISPOSAL:** Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.

**Condition of Sale and Warranty:** Growth Products, Ltd warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT

Mixing: pH Reducer is acidic. It must first be diluted with water prior to mixing with other nutrients or technical materials. pH reducer should not be added as concentrate to highly alkaline materials. Hard and alkaline water sources will leave residues and mineral build up on tanks, lines and irrigation heads. Alleviate this by flushing tanks and lines with a solution of 1 gallon citric acid to 100 gallons of water. Follow by flushing with water to rinse out lines, to clean out drip irrigation systems.

### Application Rates

Application	Rate	Frequency / Notes
<b>Warm &amp; Cool Season Turf Applications</b>	2-6 fl oz in a minimum of 2 gal water per 1,000 ft <sup>2</sup> (60-177 ml per 100 m <sup>2</sup> )	Apply Monthly. Ideal pH Range 6 - 6.5
<b>Trees &amp; Ornamentals</b>	Soil Drench: 1 quart per 100 gal. of tank mix (1 L per 400 L water)	Repeat the application every 30 days or as needed. Ideal pH Range 5 - 6.5
<b>Greenhouse Growing Media</b>	100 - 150 ppm rate Initial Application: Mix 4 - 6 fl oz per 1 gal. water (118 - 177 ml per 4 L water)	If pH is not sufficiently lowered, continue to adjust pH over several waterings, at a rate of 2-4 fl oz per gal water. (60 - 118 ml per 4L water)
<b>Hand Watering</b>	Mix ½ - ¾ teaspoon pH Reducer per gallon water	Saturate soil with solution.

### How To Determine Buffering Capacity

Water pH	Rate / Frequency
<b>Highly Alkaline Irrigation Water</b>	Before adding any other chemicals or fertilizers to tank mix, begin with the addition of 2 fl oz per 100 gal. of tank mix. Measure pH of water to determine shift. Add another 2 fl oz of pH Reducer until acceptable pH is reached. (60 ml per 400 L water)

The following precautionary statements and pictograms are based on The Globally Harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)



## WARNING

H319 Causes Serious Eye Irritation

**Another quality product from:  
Growth Products, Ltd.**

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