

# **pH REDUCER**

**A CITRIC ACID SOLUTION**

30520USA-20190531

# **GROWTH<sup>®</sup> PRODUCTS**

*THE LIQUID SOLUTIONS COMPANY*

**PROFESSIONAL BENEFICIAL TECHNOLOGY**

BAR CODE

Net Wt. 23.75 lbs. (10.77 kg)

*Shake Well Before Using*

2 1/2 Gallons (10 Liters)

## PH REDUCER



**OPEN**  
Resealable Label  
for Directions &  
Precautions

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

F106

50% .....	Citric Acid
50% .....	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 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 soils & improve micronutrient uptake.

#### EQUIPMENT & TANK CLEANING:

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.

<b>FIRST AID</b>	
<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).	
<b>STORAGE:</b> Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets.	
<b>DISPOSAL:</b> Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	

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.**  
21417 County Rd-1950 E.  
Princeton, IL 61356 USA  
Questions? Call (800) 648-7626



[www.growthproducts.com](http://www.growthproducts.com) • [questions@growthproducts.com](mailto:questions@growthproducts.com)

**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

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

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### **APPLICATION RECOMMENDATIONS:**

pH Reducer needs no mixing or agitation and will not settle out of solution. When using a variable proportioner, it can be siphoned directly out of its original container. Growth Products solutions are ideal for any type of fertigation systems.

Use pH Reducer with all types of: Bedding Plants, Perennials, Cut Flowers, Plugs, Woody Ornamentals, Nursery Crops, Trees, Foliage Plants and Container Plants.

### **ADJUSTING MEDIA PH:**

Begin by mixing 4 fl oz pH Reducer with one gallon water (100 PPM rate) and moisten a sample of growing media. Let stand 24 hours and take pH reading. Adjust rate of pH Reducer accordingly. Do not exceed 6 fl oz pH Reducer (150 PPM) per gallon per irrigation. Instead adjust media pH, with 2-4 oz pH reducer over several waterings.

<b>Application Rates</b>		
<b>Application</b>	<b>Rate</b>	<b>Frequency / Notes</b>
<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 1/2 - 3/4 teaspoon pH Reducer per gallon water	Saturate soil with solution.