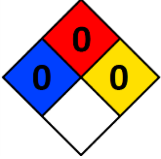





*pH Reducer a Citric Acid Solution*

NFPA	HMIS	WHMIS	TDG	DOT												
	<table border="1"> <tr> <td>Health</td> <td>minor</td> <td>1</td> </tr> <tr> <td>Flammability</td> <td>minimal</td> <td>0</td> </tr> <tr> <td>Physical Hazard</td> <td>minimal</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td></td> <td>C</td> </tr> </table>	Health	minor	1	Flammability	minimal	0	Physical Hazard	minimal	0	Personal Protection		C			
Health	minor	1														
Flammability	minimal	0														
Physical Hazard	minimal	0														
Personal Protection		C														

**Section 1 - IDENTIFICATION**

**Product Name:** pH Reducer Citric Acid Solution  
**Synonyms:** Liquid Citric Acid Solution 50%  
 Organic Acid: 2-hydroxypropane – 1,2,3-tricarboxylic acid  
**Recommended Use / Restrictions:** For crops, trees, ornamentals, turf, hydroponics & soil pH adjustment  
**Company:** Growth Products, Ltd.  
 80 Lafayette Avenue  
 White Plains, NY 10603  
**Company Phone Number:** 800-648-7626  
**Emergency Phone Number:** 800-222-1222 (American Association of Poison Control Centers)

**Section 2 – HAZARD(S) IDENTIFICATION**

**Emergency Overview:** This product is not considered hazardous and does not require labeling.  
**POTENTIAL HEALTH EFFECTS:** This product may irritate eyes and skin upon contact. Over-exposure by inhalation may cause respiratory tract irritation. Do not ingest. Do not wear contact lenses while handling. Use personal protective equipment (PPE).

**PICTOGRAM:**



**SIGNAL WORD:** WARNING!  
**HAZARD STATEMENTS:** May cause skin or eye irritation. May be harmful if swallowed or inhaled.

**Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

**COMPOSITION INFORMATION:**

**Substance/Mixture:** Mixture

<u>CHEMICAL NAME</u>	<u>CAS REGISTRY No</u>	<u>REACH No</u>	<u>EINECS No</u>
Citric acid:	77-92-9	-	201-069-1
Yucca schidigera:	223749-05-1	-	-



# SAFETY DATA SHEET

## Section 4 – FIRST-AID MEASURES

### Routes of Exposure:

- INHALATION:** Not expected to be harmful under normal conditions of use, however if allowed to become airborne, may cause irritation of nose, throat and lungs. If symptoms are experienced remove source of contamination or move victim to fresh air. Obtain medical attention if needed.
- INGESTION:** Have victim rinse mouth thoroughly with water and drink plenty of water if ingested. DO NOT INDUCE VOMITING. Seek medical attention.
- EYE CONTACT:** Irritating to eyes. Immediately flush the contaminated eye(s) with cold, gently flowing water for 5 minutes. Continue flushing for 15 minutes. Rise entire surface of the eye(s) and lids. Seek medical attention.
- SKIN CONTACT:** Irritating to skin. Immediately wash skin with cold, gently flowing water for a minimum of 20 minutes while removing contaminated clothing. Wash clothing prior to reuse. Seek medical attention immediately if irritation persists.

## Section 5 – FIRE-FIGHTING MEASURES

- Fire and Explosion Hazards:** Non-combustible
- Flammable Limits:** LEL: N/A, UEL: N/A
- Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire.
- Fire Fighting Procedures:** None
- Flashpoint and Method:** N/A
- Decomposition Products:** Carbon dioxide, carbon monoxide, nitrogen oxides

## Section 6 – ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Stop leak if without risk. Prevent product from entering drinking water supplies. Collect liquid or solidify with absorbent material and package for disposal according to local, state, and federal regulations.

### WASTE DISPOSAL PROCEDURES:

Dispose in accordance with state and local regulation.

**Reportable Quantity under Cercla:** N/A

## Section 7 - HANDLING AND STORAGE

### STORAGE TEMPERATURE:

MAX 100° F    MIN 32° F    INDOOR     OUTDOOR     REFRIG.

### PRECAUTIONS TO BE TAKEN IN HANDLING:

For safe handling - put on appropriate protective clothing (PPE). Do not ingest. Avoid contact with eyes, skin and clothing. Do not reuse containers. Refrain from eating, drinking and smoking in work areas. Do not wear contact lenses.

### PRECAUTIONS TO BE TAKEN IN STORAGE:

Not harmed by freezing. Thaw frozen fertilizer slowly and stir before using. Store in a cool, dry well ventilated area. Rotate stock in storage to use oldest first. Store in original containers only. Keep out of reach of children.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

- SKIN PROTECTION:** Gloves & protective apron.
- EYE PROTECTION:** Use goggles.
- PROTECTIVE CLOTHING:** Protective apron. Where there is a large scale use of this material with significant potential for worker contact, long-sleeved clothing or coveralls, chemical resistant gloves, and/or safety glasses with side shields may be necessary.
- OTHER PROTECTION:** N/A

### Respiratory Protection or Required Ventilation:

Not normally needed. Where air contaminants can exceed acceptable criteria use NIOSH/MSHA approved respiratory protection equipment.



# SAFETY DATA SHEET

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Evaporation Rate:</b>	Same as Water
<b>Color:</b>	Clear	<b>Boiling Point:</b>	About 212° F / 100° C
<b>Odor:</b>	None	<b>Freezing Point:</b>	< 32°F / 0° C
<b>Weight Per Gallon / Liter:</b>	9.5# @ 70° F / 1.14 Kg @ 21° C	<b>Viscosity:</b>	1-15 cps @ 21 Degrees C
<b>Storage Life at 70F:</b>	2 years	<b>Flash Point/Method:</b>	Non-combustible
<b>pH – 21C:</b>	1.5	<b>Vapor Pressure:</b>	N/A
<b>Solubility:</b>	Completely Miscible	<b>Storage Temperature:</b>	Above 32° F / 0° C

## Section 10 – STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable. Avoid contact with strong bases & oxidizing agents.
<b>CONDITIONS TO AVOID:</b>	Reaction with caustic materials can cause exothermic reaction.
<b>INCOMPATIBLE MATERIALS:</b>	Caustics, oxidizers, & bases
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of carbon
<b>HAZARDOUS POLMERIZATION:</b>	Material is not know to polymerize. Will not occur.

## Section 11 – TOXICOLOGICAL INFORMATION

<b>EFFECT OF OVEREXPOSURE ACUTE (SHORT TERM EXPOSURE):</b>	Liquid contact may cause eye irritation and skin irritation.
<b>CHORONIC (LONG TERM EXPOSURE):</b>	None Known
<b>EXPOSURE ROUTES:</b>	Not expected to be harmful under normal conditions of use, however if allowed to become airborne, may cause irritation of nose, throat and lungs. May cause irritation on prolonged or repeated contact
<b>Hazard:</b>	
<b>ACUTE TOXICITY (LETHAL DOSES):</b>	
<b>DERMAL LD<sub>50</sub> :</b>	0.5 ml dose level for rabbits.
<b>ORAL LD<sub>50</sub> :</b>	5400 mg/kg dosage level for mouse, 6730 mg/kg dosage for rat.
<b>ACUTE TOXICITY (IRRITATION, SENSITIZATION):</b>	
<b>EFFECTS TO EYES:</b>	Irritating to eyes.
<b>EFFECTS TO INGESTION:</b>	May be harmful if swallowed.
<b>EFFECTS TO SKIN:</b>	Moderate irritation, reversible within 7 days
<b>CARCINOGENICITY DATE:</b>	Not listed by NTP, IARC or regualted carcinogen by OSHA.

## Section 12 – ECOLOGICAL INFORMATION

<b>TOXICITY:</b>	This material is not classified as hazardous. It is not considered to be persistent, bioaccumulating nor toxic. Use according to good working practices.
<b>ECOTOXICITY:</b>	N/E
<b>MOBILITY IN SOIL:</b>	This product is biodegradable is soil by microbial activity.
<b>OTHER ADVERSE EFFECTS:</b>	N/E. None known.

## Section 13 – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:**  
Waste should be avoided or minimized wherever possible. Empty containers may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

## Section 14 – TRANSPORT INFORMATION

**DOT UN STATUS:** This material is not regulated hazardous material for transportation.

## Section 15 – REGULATORY INFORMATION

**WHMIS Classification:** N/A

## Section 16 – OTHER INFORMATION

**Revised Date:** 3 May 2016

**OTHER PRECAUTIONS:** Read entire label before using.

This information is furnished without warranty, expressed or implied, except that is accurate to the best knowledge of Growth Products, Ltd. The data on this sheet relates only to the specific material designated herein. Growth Products, Ltd. assumes no legal responsibility for use or reliance upon this data.

### ABBREVIATIONS / ACRONYMS:

N/E – Not Established  
N/A – Not Applicable  
NFPA – National Fire Protection Association  
HMIS – Hazardous Materials Identification System  
WHMIS – Workplace Hazardous Materials Information System  
TDG – Transport of Dangerous Goods  
DOT – Department of Transportation  
NIOSH – National Institute of Occupational Safety & Health  
RELs – Recommended Exposure Limits  
NTP- National Toxicology Program  
IARC- International Agency for Research on Cancer  
OSHA- Occupational Safety and Health Administration  
GHS- Globally Harmonized System

**HMIS Letter:** C

**Required Equipment:**

