

**1. PRODUCT AND COMPANY IDENTIFICATION**

TRADE NAME: BioLink® Acidifier  
MANUFACTURER'S NAME: Westbridge Agricultural Products  
ADDRESS: 1260 Avenida Chelsea, Vista, CA 92081  
TELEPHONE NO.: (800) 876-2767  
POISON CONTROL TELEPHONE: 1(800)222-1222  
COMPOSITION: Liquid, Citric Acid 50%  
RECOMMENDED USE: A Liquid Buffering Agent For Agricultural Use.

**2. HAZARD IDENTIFICATION**

CLASSIFICATION: Category 3 – Skin Irritation, Category 2B – Dermal Irritation, Category 2A – Eye Irritation



PICTOGRAM:

SIGNAL WORD: **WARNING.**

HAZARD STATEMENT: H319 – Causes serious eye irritation H316 – Causes mild skin irritation. H333 May cause respiratory irritation.

PRECAUTIONARY STATEMENT: Avoid contact with eyes, skin, or clothing. Wear waterproof gloves, protective eyewear, a long-sleeved shirt, long pants, and socks. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.  
**Refer to Section 4 of this SDS for First Aid information.**

OTHER HAZARDS: BioLink® Acidifier does not contain toxic chemicals in concentrations subject to the reporting requirements of OSHA or Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 or 40 CFR Part 372. This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**3. COMPOSITION INFORMATION**

<u>COMPOSITION</u>	<u>CONCENTRATION %</u>	<u>CAS NUMBER</u>
Citric Acid	50.0%	77-92-9
Water	50.0	7732-18-5

**4. FIRST AID MEASURES**

<i>If on Skin OR Clothing:</i>	Remove contaminated clothing immediately and wash before reuse. Rinse skin immediately with plenty of water and soap for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<i>If in Eyes:</i>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice.
<i>If Inhaled:</i>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration. Call poison control center or doctor for treatment advice.
<i>If Swallowed:</i>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

NOTES TO PHYSICIAN: Treat patient symptomatically.

---

## 5. FIRE-FIGHTING MEASURES

FLASH POINT:	N/A	AUTOIGNITION TEMPERATURE:	N/A
TEST METHOD:	N/A	FLAMMABLE:	This product is not flammable
EXTINGUISHING MEDIA:	All standard extinguishing agents are suitable.	UNUSUAL FIRE AND EXPLOSION HAZARD:	N/A
SPECIAL FIRE FIGHTING PROCEDURES:	N/A		

---

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

**NEUTRALIZING CHEMICALS:** N/A

Always dispose of waste materials in accordance with all State, Federal and Local Regulations

---

## 7. HANDLING AND STORAGE

### HANDLING REQUIREMENTS:

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist.

### STORAGE REQUIREMENTS:

- KEEP OUT OF REACH OF CHILDREN.
  - Store in a dry area, above freezing and below 95°F, and out of direct sunlight.
  - Keep in the original container or an approved alternative made from a compatible material.
  - Keep tightly closed when not in use.
  - Do not reuse container.
- 

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION REQUIREMENTS:** Indoor use - adequate mechanical ventilation

### SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

<b>EYE PROTECTION:</b>	Wear goggles or face shield.
<b>RESPIRATORY PROTECTION:</b>	Not required with ventilation. Do not intentionally breathe dust/spray.
<b>HAND PROTECTION:</b>	Impermeable or chemical resistant gloves.
<b>OTHER EQUIPMENT:</b>	Long sleeve shirt, long pants, socks and shoes.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR:</b>	Clear, liquid odorless
<b>pH:</b>	1.0 ± 0.10
<b>BOILING POINT, 760 MM HG:</b>	N/A
<b>MELTING POINT:</b>	N/A
<b>FLASH POINT:</b>	>120°F
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	1.24 ± 0.01
<b>EVAPORATION RATE (BUTYLACETATE=1):</b>	<1
<b>FLAMMABLE:</b>	N/A
<b>VAPOR PRESSURE:</b>	N/A
<b>VAPOR DENSITY (AIR=1):</b>	N/A
<b>SOLUBILITY IN H<sub>2</sub>O:</b>	Approximate 100% by Wt.
<b>AUTOIGNITION TEMPERATURE:</b>	N/A
<b>% VOLATILES BY VOL:</b>	Not known

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

---

## 10. STABILITY AND REACTIVITY DATA

GENERAL INFORMATION: Stable under recommended storage conditions.

CORROSIVE:  YES  NO

STABILITY:  stable  unstable

INCOMPATIBILITY (materials to avoid): Reactive with oxidizing agents, reducing agents, metals, alkalis. Corrosive in presence of aluminum, of zinc, of copper.

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS: N/A

HAZARDOUS POLYMERIZATION: None

## 11. TOXICOLOGICAL INFORMATION

### SYMPTOMS OF OVEREXPOSURE

INHALATION: May cause respiratory irritation

SKIN CONTACT: Mild skin irritation.

SKIN ABSORPTION: Mild to skin Irritation

EYE CONTACT: Severe eye irritation, but reversible.

INGESTION: Gastrointestinal Track

### EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE: Expected toxicity slight to mild.

CHRONIC OVEREXPOSURE: Expected toxicity none.

### SUSPECTED CANCER AGENT?

NO: This product's ingredients are not found in the lists below.

YES:  Federal OSHA  NTP  IARC  Cal/OSHA  Prop 65

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: No known significant effects or critical hazards. This product is expected to be readily biodegradable and it is not likely to bioconcentrate.

## 13. DISPOSAL PROCEDURES

WASTE DISPOSAL METHOD: Follow all applicable Federal, State and local regulations.

CAUTION: Do not contaminate surface waters or ditches with product or used containers.

## 14. TRANSPORT INFORMATION

GENERAL INFORMATION: Hazardous material. No special precautions required.

D.O.T.: Corrosive liquid. Acidic.

OTHER SHIPPING DESCRIPTION: N/A

TRANSPORT HAZARD CLASS(ES): N/A

PACKING MATERIALS: HDPE Containers

## 15. REGULATORY INFORMATION

EPA REG. NO.: N/A

ORGANIC CERTIFICATION: Yes - OMRI

PROPOSITION 65 (CA): N/A.

SARA TITLE III, SECTION 313 TOXIC CHEMICALS: None.

## 16. OTHER INFORMATION

All information, recommendations and suggestions appearing herein concerning our products are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use, the results to be obtained, or the safety and toxicity of the product; nor do we assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

PREPARED BY: Ivonne Sanchez, Regulatory/R&D Coordinator at Westbridge Agricultural Products

DATE: 10/23/2013 REV. DATE: April 30, 2015