

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: BioLink® Buffer & Penetrant (Organic BioLink Acidifier & Penetrant)
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: Garlic Extract and Citric Acid
RECOMMENDED USE: A Liquid Buffering Agent For Agricultural Use.

2. HAZARD IDENTIFICATION

CLASSIFICATION: Category 2A – Eye Irritant

PICTOGRAM:



SIGNAL WORD:

WARNING.

HAZARD STATEMENT:

H-319 Causes serious eye irritation.

PRECAUTIONARY STATEMENT:

Keep out of reach of children.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Avoid contact with skin, eyes or clothing.

Wear protective eyewear such as goggles or face shield.

If irritation occurs, refer to Section 4 of this SDS for First Aid information.

OTHER HAZARDS:

BioLink® Buffer & Penetrant 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.

3. COMPOSITION INFORMATION

<u>COMPOSITION</u>	<u>Concentration %</u>	<u>CAS Number</u>
Citric Acid	20.0%	77-92-9
Garlic Extract	6.6%	8008-99-9
Water	73.4%	7732-18-5

4. FIRST AID MEASURES

<i>If on Skin OR Clothing:</i>	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. 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>	Rinse mouth. Do not induce vomiting. Do not give anything to an unconscious person. Call a poison control center or doctor immediately for treatment advice.

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: Wash with water. Wear proper protective equipment as specified in the protective equipment section.

NEUTRALIZING CHEMICALS: Basic compound for low pH neutralizing.

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

EYE PROTECTION: Wear goggles or face shield.

RESPIRATORY PROTECTION: Not required with ventilation. Do not intentionally breathe dust/spray.

HAND PROTECTION: Impermeable or chemical resistant gloves.

OTHER EQUIPMENT: Long sleeve shirt, long pants, socks and shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Clear, light tan liquid with strong garlic odor
pH:	1.98 ± 0.20
BOILING POINT, 760 MM HG:	100°C
MELTING POINT:	N/A
FLASH POINT:	N/A
SPECIFIC GRAVITY (H ₂ O=1):	1.09 ± 0.05
EVAPORATION RATE (BUTYLACETATE=1):	N/A
FLAMMABLE:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY (AIR=1):	N/A
SOLUBILITY IN H ₂ O:	Approximate 99% by Wt.
AUTOIGNITION TEMPERATURE:	N/A
% VOLATILES BY VOL:	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): N/A

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS: N/A

HAZARDOUS POLYMERIZATION: N/A

11. TOXICOLOGICAL INFORMATION

SYMPTOMS OF OVEREXPOSURE

INHALATION: Slight irritation due to low pH.

SKIN CONTACT: Prolonged exposure may cause skin irritation

SKIN ABSORPTION: None expected

EYE CONTACT: Potential mild irritation.

INGESTION: None expected

EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE: Expected toxicity slight to none. May cause irritation to eyes, nose, throat and skin. May cause nausea, vomiting, diarrhea and abdominal discomfort.

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.

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: Non-hazardous material. No special precautions required.

D.O.T.: Not D.O.T. Regulated.

OTHER SHIPPING DESCRIPTION: Fertilizing Compounds (Manufactured), Liquid. NMFC Item 68140 Sub 6, LTL Class 50

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.

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