



# LIQUID HUMATE PLUS

## SAFETY DATA SHEET

SECTION 1: Identification	
<b>Product Identifier:</b> Liquid Humate Plus	
<b>Manufacturer's Address:</b> Southern Organics and Supply, Inc. 4813 East Fork Lane, Monroe, NC 28110	
<b>Manufacturer's Phone Number:</b> (704) 283-2457 vermaplex@live.com	
<b>Emergency Phone Number:</b> 911	
<b>Recommended Use:</b> As a fertilizer or soil amendment, or as an ingredient in fertilizers or soil amendments.	

SECTION 2: Hazard Identification	
Acute Toxicity, Oral – Category 5	
<b>Signal Word:</b> Warning	
<b>Pictograms</b> 	
<b>Hazard Statements</b> H303: May be harmful if swallowed.	
<b>Precautionary Statements</b> P102: Keep out of reach of children. P103: Read label before use. P312: Call a POISON CENTER or doctor/physician if you feel unwell.	

SECTION 3: Composition Information	
Trade Secret	100%
<b>Total</b>	100%

SECTION 4: First-Aid Measures
<b>INHALATION:</b> Remove to fresh air immediately. If victim is not breathing, give artificial respiration. If symptoms develop, seek medical attention.
<b>SKIN CONTACT:</b> Flush skin thoroughly with clean water. If irritation occurs, seek medical attention.
<b>EYE CONTACT:</b> Remove contact lenses. Flush affected eye(s) continuously for 15 minutes with clean water. If irritation or other symptoms develop, seek medical attention.
<b>INGESTION:</b> Drink plenty of water. Do not induce vomiting. Seek medical attention if symptoms develop. <b>Never give anything by mouth to an unconscious/unresponsive person.</b>
<b>Symptoms of Exposure</b>

May cause minor irritation to the eyes. Skin contact may produce skin irritation. Eye contact may produce eye irritation. Ingestion may cause stomach upset.

**Recommendations for Immediate Medical Care**

Remove all residual material if possible. Product may contain naturally-occurring microorganisms, so any exposed open wounds or mucous membranes should be cleaned appropriately.

**SECTION 5: Fire-Fighting Measures**

**Suitable Extinguishing Media:** Water spray, dry chemical, CO<sub>2</sub>, foam.

**Specific Hazards Arising from this Substance:** Product is not flammable. However, heating of the product may produce steam, which may be a burn hazard. Spilled product will make surfaces slippery.

**Recommendations for Firefighter Protective Equipment:** Firefighters should wear self-contained breathing apparatus, operated in positive-pressure mode, as well as appropriate protective clothing.

**SECTION 6: Accidental Release Measures**

**Personal Precautions:** Wear gloves, work clothes, and eye protection.

**Emergency Procedures:** Non-essential personnel should be evacuated from spill area, as spill may present a slip hazard.

**Methods of Containment:** Contain spill with sand dike, sawdust, or another physical barrier.

**Cleanup Procedures:** Spilled material may be mopped up or absorbed with a suitable absorbent. Collected liquid and used absorbent should be transferred to appropriate containers. It should be disposed of according to local, state, and federal regulations. It may be disposed of as organic waste.

**SECTION 7: Handling and Storage**

**Precautions for Safe Handling:** Protect open wounds from contact with product. Take precautions to minimize splashing.

**Conditions for Safe Storage, Including Incompatibilities:** Store indoors at ambient temperature. Store in original container. Keep away from children and pets. Store below 120°F where possible.

**Further Information:** Use good personal hygiene practices. This substance is made from natural products, and is likely to contain naturally-occurring microorganisms. Take proper precautions to avoid infection of open wounds, inhalation of large quantities of dust, and eye irritation. Hygiene practices necessary to prevent health hazards from natural substances such as soil, wood chips, bark, compost, etc. should be observed. After handling product, hands should be washed with soap and water before eating, drinking, smoking, or using toilet facilities. Product will stain clothing, fabric, and porous surfaces.

**SECTION 8: Exposure Controls / Personal Protection**

OSHA PEL	ACGIH	TLV	Other Exposure Limits
NDA	NDA	NDA	NDA

**Engineering Measures:** Store indoors at ambient temperature. Store only in original container.

**Eye Protection:** Safety glasses or safety goggles should be worn where eye exposure is likely.

**Hand Protection:** Any appropriate water-proof gloves.

**Skin and Body Protection:** Normal work clothing.

**Respiratory Protection:** None required.

**General Protective and Hygiene Practices:** Appropriate local ventilation, where required. Open wounds should be kept clean and protected. After handling material, wash hands before eating, drinking, smoking, or using restrooms. Keep away from foodstuffs and beverages. Product will stain skin temporarily. This is harmless.

**SECTION 9: Physical and Chemical Properties**

**Physical State:** Liquid

**Appearance:** Brownish-black to black, slippery liquid.

**Odor:** Earthy.

**Odor Threshold:** NDA

<b>pH:</b> NDA
<b>Melting/Freezing Point:</b> NDA
<b>Boiling Point/Range:</b> NDA
<b>Flash Point:</b> NDA
<b>Evaporation Rate:</b> NDA
<b>Flammability (solid, gas):</b> NDA
<b>Flammability or explosive limits:</b> <b>Upper:</b> NDA <b>Lower:</b> NDA
<b>Vapor Pressure:</b> NDA
<b>Relative Density:</b> NDA
<b>Solubility:</b> NDA
<b>Partition coefficient; n-octanol/water:</b> NDA
<b>Autoignition Temperature:</b> NDA
<b>Decomposition Temperature:</b> NDA
<b>Viscosity:</b> NDA

#### SECTION 10: Stability and Reactivity

<b>Reactivity:</b> Inert.
<b>Stability:</b> Stable under normal conditions.
<b>Conditions to Avoid:</b> Keep away from open flames, hot surfaces, and sources of ignition.
<b>Incompatible Materials:</b> Strong acids, strong bases, strong oxidizers, strong reducing agents.
<b>Hazardous Decomposition Products:</b> CO <sub>2</sub> (carbon dioxide). CO (carbon monoxide).

#### SECTION 11: Toxicological Information

<b>Likely Routes of Exposure:</b> Possible routes of exposure include eye contact, skin contact, or ingestion.
<b>Effects of Exposure:</b> NDA
<b>LD50:</b> NDA
<b>Description of Symptoms:</b> NDA
<b>NTP/IARC Carcinogenicity:</b> NDA

#### SECTION 12: Ecological Information

<b>Ecotoxicity:</b> NDA
<b>Biodegradation:</b> Product is a natural material, and will biodegrade.
<b>Octanol-Water Partition Coefficient:</b> NDA
<b>Bioconcentration Factor:</b> NDA
<b>Other Adverse Effects:</b> NDA

#### SECTION 13: Disposal Considerations

For safe handling practices, see Section 8.
<b>Disposal Containers:</b> Material should be disposed of in its original container, where possible. If original container is not available, material may be disposed of in any suitable water-tight closed-top container.
<b>Disposal Methods:</b> Material may be disposed of as organic waste, according to state, local, and federal laws.
<b>Properties Affecting Disposal:</b> If material is treated with any chemical agents prior to disposal, the disposal guidelines in the treating chemical's Safety Data Sheet should be followed.
<b>Special Precautions for Landfill or Incinerator Disposal:</b> None.
<b>Do not dispose of waste product in sewers, storm drains, lakes, ponds, streams, or other bodies of water.</b>

#### SECTION 14: Transport Information

<b>UN Number:</b> Unknown
<b>UN Proper Shipping Name:</b> Liquid Humate Plus

<b>Transport Hazard Class(es):</b> None
<b>Packing Group Number:</b> N/A
<b>Environmental Hazard(s):</b> None
<b>Guidance on Transport in Bulk:</b> Product may slosh during shipping. Large containers should be well-secured before transport.
<b>Special Precautions:</b> None.

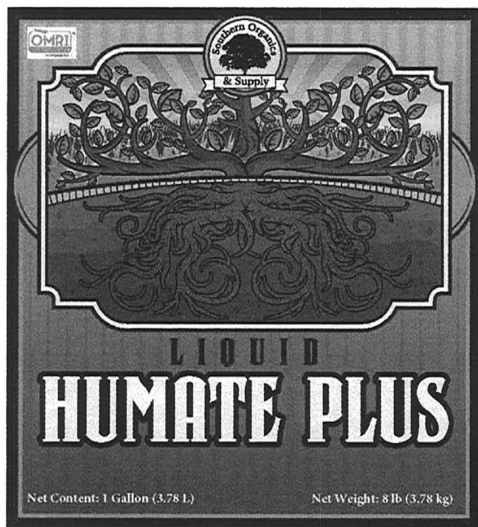
<b>SECTION 15: Regulatory Information</b>
No special regulatory information.

<b>SECTION 16: Other Information</b>
<b>Date Created:</b> August 15, 2017
<b>Last Revision:</b> January 20, 2020
<b>Prepared By:</b> Matthew Banks, Chief Science Officer
<b>Preparer Contact Information:</b> PO Box 2099, Indian Trail, NC 28279 Ph: (704) 283-2457 Fx: (704) 283-2104 E-mail: vermaplex@live.com

(NDA = No Data Available)

NOTE: The information and recommendations contained herein are based upon information believed to be correct. However, no guarantee or warranty, expressed or implied, is offered with respect to the information contained herein. This Safety Data Sheet was prepared to comply with the OSHA Hazard Communication standard (29 CFR 1910.1200). This supersedes any previous versions, and any information therein. Since the actual use of the product is beyond the control of Southern Organics & Supply, Inc., Southern Organics & Supply, Inc., makes no guarantee, expressed or implied, as to the effects of such use, nor does Southern Organics & Supply, Inc. assume any liability arising from use of the products referenced herein. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable under some circumstances. All SDS's are reviewed every 3 years, or sooner, if necessary. Please check the date last revised in Section 16. Please request a new SDS from Southern Organics & Supply if this SDS is more than 3 years old. If clarification is required or desired, please contact the company official(s) listed in Section 1 or Section 16.

# Liquid Humate Plus



## About Liquid Humate Plus:

- Liquid Humate Plus is an extract derived from fossilized plant matter.
- Liquid Humate Plus is rich in humic acids, which are complex organic molecules which provide a slow-release carbon source.
- Humic acids also improve the texture, mechanical stability, and water- and ion-holding capacity of the soil.
- A natural extract which is rich in organic matter.

## Mixing Instructions:

When mixing with water, fill container halfway, then add product and the remaining water.

**Gallon Mix:** While agitating the solution add 3 fluid ounces of Liquid Humate Plus to 1 gallon of water.

**Tank Mix:** While agitating the solution, add 1 gallon of Liquid Humate Plus to 50 gallons of water.

**Directions For Use:** Shake well before use. Do not store diluted.

Shelf life is 2 years from date of purchase.

## Application Rates

Apply 50 gallons of Liquid Humate Plus mixture per acre. (40 ounces per 1,000 ft<sup>2</sup>)

**Agricultural:** Use the Liquid Humate Plus tank mix instructions and apply before planting season and throughout the growing season as needed.

**Germinating Seeds:** Use the Liquid Humate Plus gallon mix instructions, and apply after you have your seeds sown. If seeds need to be soaked, use the Liquid Humate Plus mixture.

**Turf/Lawn:** Use the Liquid Humate Plus tank mix instructions and apply monthly during growing season and again in late fall.

**Nursery/Greenhouse:** Use the Liquid Humate Plus gallon mix instructions and apply as if regularly watering up to four times a year.

**Hydroponic Gardens:** Use the Liquid Humate Plus gallon mix instructions and apply after plants are established monthly.

## Guaranteed Analysis:

**CONTAINS NONPLANT FOOD INGREDIENTS**

**Soil Amending Guaranteed Analysis:**

10.33%.....Humic Acid

89.67%.....Inert Ingredients

Derived From: Leonardite.

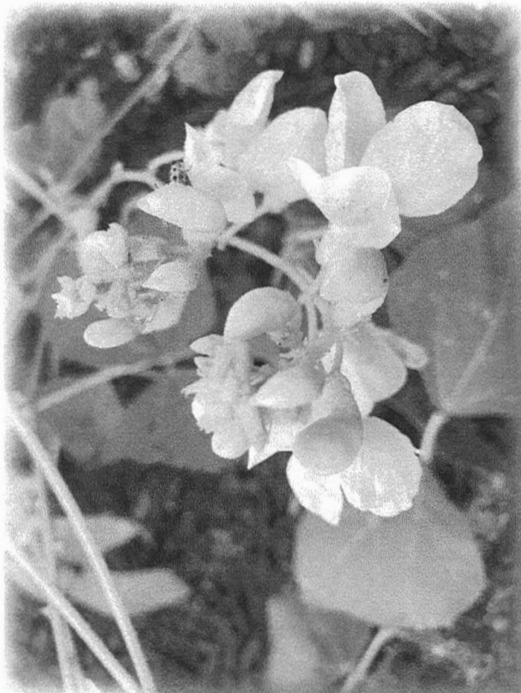


**Product Sizes Available:**

**1 Gallon    2.5 Gallons    5 Gallons**  
**55 Gallons    275 Gallons**

# Liquid Humate Plus

Liquid Humate Plus is a liquid source of organic matter. Humate is an excellent source of organic acids, which improve both soil texture and the soil's cation exchange capacity (which indicates its ability to store and exchange nutrients).



States Liquid Humate Plus Registered: AL, AZ, CA, CO, DE, FL, GA, IA, KS, LA, MD, MA, MO, NJ, NM, NY, NC, OH, OR, PA, SC, TN, TX, VA, WA

## Southern Organics & Supply's OMRI Listed Products

Black Sea Kelp 1-1-10  
Coral Calcium  
Fish Hydrolysate 2-3-1  
Granular Kelp Meal 1-0-2  
Liquid Humate Plus  
Liquid Yucca Extract  
Nutri-Cast 3-4-2  
Vermacast 1.1-0.2-0.1  
Vermacompost Fine Grade 1.0-0.5-0.5  
Vermacompost Standard Grade 1.0-0.5-0.5  
Vermamax 4-4-2  
Vermaplex 0.48-0.01-0.016



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Organic Liquid  
Soil Amendment



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