



LIGNIN MANGANESE 5%

GUARANTEED ANALYSIS

Sulfur (S)	2.70%
Manganese (Mn)	5.00%

Derived From: Manganese Sulfate. Complexed with Lignosulfonate.

KEEP OUT OF REACH OF CHILDREN



WARNING

Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

F1548

FOR AGRICULTURAL AND PROFESSIONAL USE ONLY

SHAKE, STIR OR SWIRL CONTENTS BEFORE USING

FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed: 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 do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL 1-866-944-8565.

GENERAL INFORMATION

- LEAF LIFE LIGNIN LIQUID MANGANESE 5% is designed for foliar application to growing crops, alone or with pesticides.
- LEAF LIFE LIGNIN LIQUID MANGANESE 5% may be applied directly to soil, alone or with pesticides or herbicides.
- LEAF LIFE LIGNIN LIQUID MANGANESE 5% may be used in drip irrigation systems.
- LEAF LIFE LIGNIN LIQUID MANGANESE 5% is compatible with most water-dispersed pesticides
- LEAF LIFE LIGNIN LIQUID MANGANESE 5% may be applied via conventional (high volume), low volume or air craft sprayers.
- LEAF LIFE LIGNIN LIQUID MANGANESE 5% is recommended for all field, row, vegetable, fruit, tree, vine, ornamental and turf crops.

DIRECTIONS FOR USE:

All Crops:

Nutrient Maintenance	1.0 to 3.0 quarts per acre
Light Deficiency	2.0 to 6.0 quarts per acre
Severe Deficiency	1.0 to 2.0 gallons per acre

Consult your Crop Production Services Crop Advisor for proper recommendations and compatibilities.



*The lower rates are for field, row and vegetable crops. The higher rates are for fruit tree, vine, ornamental and turf crops. When rates of over 2.0 quarts are called for, split or multiple applications of 2.0 quarts or less each are preferred. Applications should be separated by a minimum of 10 to 14 days.

Conventional (Dilute) Spray Applications: While the entire required quantity may be applied at one time, split applications will improve overall efficiency of uptake and will be more effective. Apply the required amount of this product in enough water for good coverage. Complete wetting of the foliage is not required.

Ground Concentrate Applications: Use up to 0.50 gallon of this product in a minimum of 25.0 gallons of water per acre per application. Repeat in 10 to 14 days if greater amounts of this product are required.

Air Applications: Normal aerial application is 1.0 quart of this product per 5.0 gallons of water per acre per application. MAXIMUM concentration of 1.0 quart per gallon of spray may be used, but larger quantities of water will improve coverage.

Liquid Fertilizer Applications: This product may be applied with all nitrogen solutions. Thoroughly mix this product with the nitrogen solution before applying.

Drip Irrigation: The required amount of this product should be applied over the growing season of the crop via multiple applications 1 to 2 weeks apart.

WITH pesticides or herbicides, always add this product to spray tank before adding the herbicide or pesticide. The alkaline water usually encountered in the Western United States will require 1.0 to 2.0 quarts per 100 gallons of spray water. **AVOID** foliar applications of this product when plants are under moisture stress. Immediate post-irrigation or post-rainfall applications give best foliar uptake of nutrients. Avoid periods of high temperatures or low humidity. **ACTIVELY** growing plants with young leaves absorb nutrients most effectively. **ADDITION** of nitrogen (for example 5.0 pounds of Lo-Biuret urea per 100 gallons of spray) will increase efficiency of nutrient uptake.

COMPATIBILITY

This product is compatible with most pesticides except basic products such as lime, lime-sulfur, basic metal sulfates, metal oxides, etc. A compatibility test is recommended if the desired combination has not been used in the past.

STORAGE and DISPOSAL

STORAGE: STORE ABOVE 52° F. Shake well before using. Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed by storage or disposal. **DISPOSAL:** Do not reuse container. Plastic: Triple rinse (or equivalent), adding rinse water to spray tank, then offer for recycling at an ACRS site go to (<http://www.acrcycle.org/>) for locations, or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food, or feed by storage or disposal.

HANDLING: Avoid breathing fertilizer mists. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after handling this product.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

Tests have not been carried out under all possible use conditions and Seller cannot and does not represent or warrant that the goods are compatible with all other chemicals or under all use conditions.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.regulatory-info-lpi.com>

Leaf Life is a registered trademark of Loveland Products, Inc.



WARNING

This product can expose you to chemicals including nickel, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

GUARANTEED BY: LOVELAND PRODUCTS, INC.® • P.O. BOX 1286 • GREELEY, CO 80632-1286



Bulk Density: 10.05 lbs/gallon @ 68 °F
Net Contents: 260 gallons (984.21 liters)
Net Weight: 2,613 lbs (1,185.24 kg)
product code: 1000754492



Bulk Density: 10.05 lbs/gallon @ 68 °F
Net Contents: 5 gallons (18.92 liters)
Net Weight: 50.25 lbs (22.79 kg)
product code: 1000754493



Bulk Density: 10.05 lbs/gallon @ 68 °F
Net Contents: gallons (liters)
Net Weight: lbs (kg)
product code: 1000754017