



**GUARANTEED ANALYSIS**  
Soluble Potash (K<sub>2</sub>O).....4.00%  
**Derived From:** potassium acetate and seaweed extract

**ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:**  
3.00% .....Organic Matter from Leonardite Ore

**PURPOSE STATEMENT**

TERRAMAR™ is a highly soluble blend of biologically extracted kelp and humic substances. TERRAMAR augments a balanced crop nutrition system by improving soil CEC\* and chelation, stimulating soil microbiota, improving plant vigor, and elicits plant response during periods of stress.  
\*Cation Exchange Capacity

**KEEP OUT OF REACH OF CHILDREN**



**WARNING**

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

**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.**

**COMPATIBILITY**

TERRAMAR™ is compatible with most insecticides, fungicides and fertilizers. Some pH adjustments may be required with acidic mixtures. Add surfactants after the product has completely dissolved in the tank solution. If interaction of chemicals is unknown, a "jar" compatibility test is recommended.

**DIRECTIONS FOR USE**

TERRAMAR™ dilutes in water and is suitable for use in liquid foliar, soil applied, and irrigation water applications, including Calcium Ammonium Nitrate and Calcium Thiosulfate solutions. Regular applications are important for maximizing crop potential during unexpected stress. Rate is 2.0 to 4.0 quarts per acre. Apply as needed based on soil tests or according to recommendations in your nutrient management plan.

**FOLIAR APPLICATIONS**

Fill half the spray tank with water, begin agitating and add recommended amount of TERRAMAR™ with remainder of water and spray solution. A minimum spray volume of 15.0 gallons per acre is recommended. Use a surfactant for maximum dispersal and leaf adherence.

**SOIL APPLICATIONS**

Soil-applied treatments can be made by mixing with soil applied nutritional products, through directed sprays to the soil, sidedress treatments, applications through the irrigation systems or any other methods which effectively apply TERRAMAR™ to the soil. TERRAMAR can be applied through drip, microjet, sprinkle, overhead, infurrow, flood and other types of irrigation at the suggested rates.

**APPLICATION RATES AND GENERAL RECOMMENDATIONS**

Crop	Application rate per acre	Application Directions and Timing
<b>WOODY PERENNIAL CROPS</b>		
Trees, Vines, Bushes, etc.	2.0 to 4.0 qts	1st application: at start of growth in the spring Repeat treatments every 7 to 30 days. At transplanting, a root treatment can be used. Post-harvest applications can be made every 1 to 4 weeks from harvest to dormancy. Applications can be made either foliar or to the soil. Apply 3 to 5 days prior to an anticipated plant stress.
<b>Fruit Crops</b>		
Avocados	2.0 to 4.0 qts	1st application: at start of regrowth in the spring 2nd application: 2 weeks pre-bloom 3rd application: 2 weeks after petal fall 4th application: before summer fruit drop Repeat: every 2 to 4 weeks during summer months
Bushberries (Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, etc.)	2.0 qts	1st application: 4 weeks pre-bloom (soil) 2nd application: 2 weeks pre-bloom 3rd application: petal fall Repeat: every 2 to 4 weeks during summer months
Caneberries (Blackberry, Loganberry, Raspberry, etc.)	2.0 qts	1st application: at start of growth in the spring 2nd application: 2 weeks pre-bloom 3rd application: petal fall Repeat: every 2 to 4 weeks during summer months
Citrus (Grapefruit, Lemons, Limes, Mandarins, Oranges, etc.)	2.0 to 4.0 qts	1st application: start of growth in the spring (feather growth) 2nd application: 2 weeks pre-bloom 3rd application: petal fall Repeat: every 2 to 4 weeks during summer Fall: apply with gibberellin sprays in mid and late season varieties
Cranberries	2.0 to 4.0 qts	1st application: 4 weeks pre-bloom (soil) 2nd application: 2 weeks pre-bloom 3rd application: petal fall Repeat: every 2 to 4 weeks
Grapes (Wine)	2.0 to 4.0 qts	1st application: 1- to 4- inch shoot growth (foliar and soil) 2nd application: 10- to 12-inch shoot growth (foliar and soil) 3rd application: 5 days pre-bloom (foliar) Avoid foliar pre-bloom application in varieties that are prone to under shatter. Use high rate in pre-bloom sprays on varieties that tend to over shatter. 4th application: 'BB' sized berries (2 to 3 mm) (foliar) 5th application: veraison (foliar and soil) Repeat: every 2 to 4 weeks during summer months
Grapes (Table, Raisin and Juice)	2.0 to 4.0 qts	1st application: 1- to 4- inch shoot growth (foliar and soil) 2nd application: 10- to 12- inch shoot growth (foliar and soil) 3rd application: 5 days pre-bloom (foliar) Avoid foliar pre-bloom application in varieties that are prone to under shatter. Use high rate in pre-bloom sprays on varieties that tend to over shatter. 4th to 6th applications: sizing sprays (foliar) 7th application: veraison (foliar and soil) Repeat: every 2 to 4 weeks during summer months
Kiwi	2.0 to 4.0 qts	1st application: at start of growth in the spring 2nd application: 2 weeks pre-bloom 3rd application: petal fall Repeat: every 2 to 4 weeks during summer months
Olives	2.0 to 4.0 qts	1st application: late winter (foliar) 2nd application: 2 weeks pre-bloom Repeat: every 2 to 4 weeks through to harvest
Figs	2.0 to 4.0 qts	1st application: at start of growth in the spring Repeat: every 2 to 4 weeks
Pome Fruits (Apples, Pears and Quince)	2.0 to 4.0 qts	1st application: tight cluster 2nd application: pink bud 3rd application: petal fall 4th application: 1/2 to 3/4" fruit Repeat: every 2 to 4 weeks during summer months

**Application Instructions cont'd.**

Crop	Application rate per acre	Application Directions and Timing
Stone Fruits (Peaches, Nectarines, Apricots, Plums, Prunes, etc.)	2.0 to 4.0 qts	1st application: pink/white bud 2nd application: petal fall 3rd application: jacket split Repeat: every 2 to 4 weeks during summer months
Cherries	2.0 to 4.0 qts	1st application: white bud 2nd application: petal fall to shuck fall 3rd application: exposed young fruit 4th application: straw color Apply with gibberellin sprays. Avoid sprays after straw-colored fruit on non-gibberellin blocks where early market is desired. Repeat: during times of stress
Pomegranate	2.0 to 4.0 qts	1st application: start of growth in the spring 2nd application: 2 weeks pre-bloom 3rd application: petal fall Repeat every 2 to 4 weeks
Strawberries	2.0 qts	Pre-plant: 1 to 2% solution Repeat: soil applications every 14 days until harvest is complete
Pineapple	2.0 to 4.0 qts	Foliar or soil applications at planting. Repeat every 2 to 4 weeks during the growth and fruit development periods.
<b>Vegetable Crops</b>		
Asparagus	2.0 qts	For new plants, make a soil application at planting followed by soil or foliar applications every 14 to 21 days. New crop at fern growth in spring For established plants, begin applications when harvest is complete (after cutting) and repeat every 14 to 21 days.
Brassica Vegetables (Broccoli, Brussels Sprouts, Cauliflower, Collards, Cabbage Kale, and Mustard Greens, Bulb Vegetables, Garlic, Leeks, Onions, and Shallots)	2.0 qts	1st application: soil or transplant treatment at planting Repeat: soil or foliar applications every 14 to 21 days until harvest is complete
Corn (Fresh, Sweet, and Pop)	2.0 qts	1st application: soil applied treatment at planting 2nd application: soil or foliar applications at the pretassel stage
Cucurbit Vegetables (Cantaloupe, Cucumbers, Gourds, Honeydew, Muskmelons, Squash, Pumpkins, and Watermelons)	2.0 qts	1st application: soil or transplant treatment at planting Repeat: soil or foliar applications every 14 to 21 days until harvest is complete
Fruiting Vegetables (Eggplant, Fresh Tomatoes, Processing Tomatoes, and Peppers)	2.0 qts	1st application: soil or transplant treatment at planting Repeat: soil or foliar and applications every 14 to 21 days until harvest is complete. Use adequate water for good coverage. Minimum 30 GPA for mature plants is recommended.
Leafy Vegetables (Celery, Endive, Lettuce, Radicchio, Rhubarb, Spinach and Swiss Chard)	2.0 qts	1st application: foliar application at the 2 to 4 leaf stage Repeat: foliar applications every 14 to 21 days until harvest
Legumes Fresh, Dry and Processing (Beans, Garbanzos, Lentils, Peas and Soybeans)	2.0 qts	1st application: soil applied treatment at planting Repeat: soil or foliar applications every 14 to 21 days until harvest
Potatoes	2.0 qts	1st application: soil applied treatment at planting Repeat: soil or foliar applications every 21 to 30 days until harvest
Peanuts	2.0 qts	1st application: soil applied treatment at planting Repeat: soil or foliar applications every 14 to 21 days until harvest
Root and Tuber Vegetables (Beets, Carrots, Sweet Potatoes, etc.)	2.0 qts	1st application: soil applied treatment at planting Repeat: soil or foliar applications every 14 to 21 days until harvest
Alfalfa	2.0 qts	1st application: soil or foliar application at planting or early season growth Repeat: soil or foliar applications after each cutting or every 3 to 4 weeks

**Application Instructions cont'd.**

Crop	Application rate per acre	Application Directions and Timing
Corn (Grain, Feed, Forage and Silage)	2.0 to 4.0 qts	1st application: soil treatment at planting 2nd application: soil or foliar applications at the pretassel stage. Applications can be made either foliar or to the soil. Apply 3 to 5 days prior to an anticipated plant stress.
Seed Corn	2.0 qts	Apply starting at planting with repeat treatments every 7 to 30 days. Applications can be made either foliar or to the soil. Apply 3 to 5 days prior to an anticipated plant stress.
Cotton	2.0 qts	1st application: soil applied treatment at planting Repeat: soil or foliar applications every 14 to 21 days
Hops	2.0 qts	1st application: at start of training in the spring Repeat: every 2 to 4 weeks
Rice	2.0 qts	1st application: 30 to 40 days after seeding 2nd application: at early panicle emergence Applications can be made either foliar or to the soil. Apply 3 to 5 days prior to an anticipated plant stress.
Wheat	2.0 qts	1st application: soil applied treatment at planting Repeat: soil or foliar treatments at the 6 and 12- to 18- inch growth stage
<b>Nut Crops</b>		
Almonds	2.0 qts	1st application: pink bud 2nd application: petal fall 3rd application: before summer heat stress (late May, early June) Repeat: every 2 to 4 weeks during summer months
Hazelnuts	2.0 to 4.0 qts	1st application: at ovule growth initiation 2nd application: first leaf expansion Repeat: every 2 to 4 weeks until harvest
Pistachios	2.0 to 4.0 qts	1st application: at early bud break 2nd application: at bloom 3rd application: fully leaved out Repeat: every 2 to 4 weeks during summer months
Tree Nuts (Cashews, Pecans, Walnuts, Chestnuts, Macadamia, etc.)	2.0 to 4.0 qts	1st application: 1% bloom 2nd application: 30% bloom 3rd application: 2 weeks after previous application
<b>Other Fruit, Vegetable and Field Crops</b>		
	2.0 to 4.0 qts	Apply starting at planting with repeat treatments every 7 to 30 days. Applications can be made either foliar or to the soil. Applications can be made either foliar or to the soil. Apply 3 to 5 days prior to an anticipated plant stress.

**STORAGE and DISPOSAL**

**STORAGE:** Store product in dark fiberglass or plastic containers out of direct sunlight, UV light or intense heat. 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. **PROTECT FROM FREEZING.** Do not contaminate water, food, or feed by storage or disposal. **DISPOSAL:** Do not reuse container. Triple rinse (or equivalent) and add rinsate to spray tank, then offer for recycling at an ACRC site (go to <http://www.acrcycle.org/>) or by reconditioning, or puncture and dispose of in a sanitary landfill or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment wash waters or spray waste.  
**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.

California Proposition 65: **WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

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

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.

TERRAMAR is a trademark of Loveland Products, Inc.

**F1548**

**FOR AGRICULTURAL AND PROFESSIONAL USE ONLY**



Density: 8.35 lbs/gallon @ 68 °F  
**Net Contents: 275 gallons (1,040.99 liters)**  
**Net Weight: 2,296.25 lbs (1,041.56 kg)**  
Product code: 1000827525



Density: 8.35 lbs/gallon @ 68 °F  
**Net Contents: 135 gallons (511.03 liters)**  
**Net Weight: 1,127.25 lbs (511.31 kg)**  
Product code: 1000828806