

# 3-4-3 Natural Granular Fertilizer

- Use for seeding, garden and flower beds, bulbs, trees and shrubs
- Contains beneficial rhizosphere bacteria that convert nutrients for plant use.
- Ascorbic Acid, Amino Acid and Thiamine Mononitrate aid plant resistance to, and recovery from abiotic stress Kelp meal is a source of nutrients for beneficial microbes and helps improve performance under minor abiotic
- Myo-inositol elicits plant response to perform better under stress

### **ROOTS® Healthy Start® Advanced 3-4-3** is formulated for general use applications.

It contains NPK fertility derived from natural sources, and includes beneficial rhizosphere bacteria to boost biological soil fertility. It also contains humic acids, which may aid in the uptake of mineral nutrients by plants. Roots Healthy Start Advanced 3-4-3 is manufactured as an insoluble granular fertilizer that releases nutrients as it biodegrades. It is used to provide rich organic matter and active rhizosphere bacteria to depleted soils.

#### **DIRECTIONS FOR USE:**

**Soil Prep for Gardens and Flower Beds:** Apply 25 pounds per 1000 square feet. In very poor soil, double the rate. Rototill into the upper 2 to 4 inches before planting.

**Bulbs or Sprigs:** Add 1 teaspoon per plant and mix with soil in planting hole.

**Potting Mix:** Mix into potting soil at a rate of 25 pounds per cubic yard.

**Potted Plants:** 1/4 pound per 1 gallon container.

**Top Dressing:** Apply one 25 pound bag per 2000 square feet.

**Established Trees and Shrubs:** Broadcast 2 pounds per 100 square feet over soil or surface mulch.

Planting Trees and Shrubs: Mix into the backfill around the root zone when planting, following the rate CONTAINS NO MANURE, SEWAGE OR SLUDGE INGREDIENTS

**Seed/Sod Installation:** Broadcast or spread one 25 pound bag per 2500 square feet, then seed or lay sod.

APPLICATION RATES						
1 gallon plant	1 cup or 1/4 pound	100 plants per 25-Lb bag				
5 gallon plant	2 cups or 1/2 pound	50 plants per 25-Lb bag				
15 gallon plant	4 cups or 1 pound	25 plants per 25-Lb bag				
24 inch root ball	6 cups or 1 1/2 pounds	16 plants per 25-Lb bag				
36 inch root ball	10 cups or 2 1/2 pounds	10 plants per 25-Lb bag				
42 inch root ball	12 cups or 3 pounds	8 plants per 25-Lb bag				
54 inch root ball	16 cups or 4 pounds	6 plants per 25-Lb bag				
72 inch root ball	20 cups or 5 pounds	5 plants per 25-Lb bag				
Larger sizes	1/2 pound	per inch of trunk diameter				

SPREADER SETTINGS								
Rate per	Earthway Drop	Earthway Broadcast	Scotts Drop	Scotts Drop	Speedy	AccuPro		
1000 FT <sup>2</sup>	Spreader	Spreader	AccuGreen	Precision Green	Green	2000		
50 pounds	23 (4x)	28 (8x)	18 (4x)	17 (4x)	18 (5x)	Z (6x)		
25 pounds	23 (2x)	28 (4x)	18 (2x)	17 (2x)	10 ½ (3x)	W (3x)		
Avg. width	Overlap	13 feet	Overlap	Overlap	5 feet	10 feet		
of spread	Wheels		Wheels	Wheels		Cone 8		

Note: 2x means 2 passes



**Expiration date:** 

For technical assistance and information about our products visit www.LebanonTurf.com

## **GUARANTEED ANALYSIS**

2.5% Water Insoluble Nitrogen\* 0.5% Ammoniacal Nitrogen Soluble Potash (K<sub>2</sub>0) ......3% Iron (Fe) 0.1% Water Soluble Iron (Fe) Derived from: wheat middlings, meat and bone meal, rock phosphate, feathermeal, sulfate of potash, kelp meal, ferrous sulfate. \*2.5% Slowly available nitrogen from meat and bone meal, feather meal. **ALSO CONTAINS NON PLANT FOOD INGREDIENTS** OTHER INGREDIENTS NON PLANT FOOD INGREDIENTS Humic Acids ..... 95,000 cfu/g Bacillus licheniformis 95,000 cfu/q *Bacillus megaterium* 10,000 cfu/q Bacillus polymyxa

95,000 cfu/q Bacillus pumilus 95,000 cfu/q Bacillus subtilis 10,000 cfu/a Paenibacillus azotofixans **OTHER** 

> 0.15% Ascorbic Acid (Vitamin C) 0.05% Amino Acid (Glycine) 0.02% Myo-Inositol

0.01% Thiamine mononitrate (Vitamin B<sub>1</sub>)

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

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## WARNING

## **Precautionary Statements for handling:**

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention Keep out of reach of children

Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations.

**STORAGE:** Store at temperatures between 50° and 90° F in a dry location.

Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan.

Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn or garden, and sweep any product that lands on the driveway, sidewalk, or street back on to your lawn or garden.

NOTICE: This product contains the micronutrient iron. Iron may stain concrete surfaces and should not be applied on dry or water dampened concrete and should be removed from these areas promptly by sweeping or blowing. Do not wash off with water.

Apply only to actively growing turf. Do not exceed 3.2 lbs. of total nitrogen per 1,000 sq. ft. annually.

In Maryland, New Jersey, New York and Virginia: This fertilizer contains phosphorus and may not be used for lawn maintenance on turf in the states of Maryland, New

1) Providing nutrients to specific soils and target vegetation as determined to be necessary in accordance with a soil test that was conducted by a laboratory\* performed no more than 3 years before the application

2) Establishing vegetation for the first time, such as after land disturbance, provided the application is conducted in accordance with the recommended application rates

3) Re-establishing or repairing a turf area.

\*In Maryland, the soil testing laboratory must be identified under Section 8-803.7 of the Agriculture Article, Annotated Code of Maryland.

In New Hampshire: This fertilizer contains phosphate. In New Hampshire, phosphate fertilizers may only be used for turf maintenance in golf courses, parks, athletic fields, and sod farms.

NOTE To the extent consistent with applicable law, Buyer assumes all responsibility for safety and performance if this product is not used according to the directions.



Manufactured by Lebanon Seaboard Corporation 1600 E. Cumberland St. . Lebanon, PA 17042 800-233-0628 • (717) 273-1685 Made in the U.S.A.

Net Weight / Peso Neto 25 lbs (11.3 kg) Covers up to 3,125 Sq. Ft. (3,125 pies<sup>2</sup>)

Not labeled for use on food crop sites.