

- Use for seeding, garden and flower beds, bulbs, trees and shrubs
- Contains beneficial rhizosphere bacteria

**ROOTS®** Healthy Start® 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 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:**

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

**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.

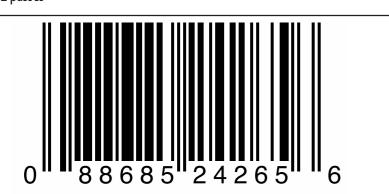
**Established Trees and Shrubs:** Broadcast 2 pounds per 100 square feet over soil or surface mulch.

**Planting Trees and Shrubs:** Mix into the backfill around the root zone when planting, following the rate chart below.

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		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



G/19

Expiration date:

## CHADANTEED ANALYSIS

GUARANTEED ANALYSIS					
Total Nitrogen (N)3%					
2.8% Water Insoluble Nitrogen*					
0.2% Ammoniacal Nitrogen					
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	4%				
Soluble Potash (K, O)	3%				
Calcium (Ca)	4%				
Derived from: Meat and Bone Meal, Feather Meal,					
Soft Rock Phosphate, Kelp Meal, Sulfate of Potash.					
*2.8% Slowly available nitrogen from meat and bone meal, feather mea					
ALSO CONTAINS NON PLANT FOOD INGREDIENTS					
SOIL/PLANT AMENDING INGREDIENTS					
Rhizosphere Bacteria 400,000 cfu/g					
95,000 cfu/g <i>Bacillus licheniformis</i>					
95,000 cfu/g <i>Bacillus megaterium</i>					
10,000 cfu/g <i>Bacillus polymyxa</i>					
95,000 cfu/g <i>Bacillus pumilus</i>					
95,000 cfu/g <i>Bacillus subtilis</i>					
10,000 cfu/g <i>Paenibacillus azotofixans</i>					
Humic acids (derived from Leonardite) 2.5%					
<b>INERT INGREDIENTS</b>					
94.9% Fertilizer Ingredients					
2.5% Leonardite (other than humic acids)					
0.1% Maltodextrin	F699				

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

## **CONTAINS NO MANURE, SEWAGE OR SLUDGE INGREDIENTS**

Keen out of reach of childre

Keep out of reach of children
Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations.

 $\textbf{STORAGE:} \ \text{Store at temperatures between } 50^{\circ} \ \text{and} \ 90^{\circ} \ \text{F in a dry location}.$ 

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.

WARRANTY

**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.

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 Jersey, New York or Virginia except when

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 established by the State
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.



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 pies²)