



# Healthy Start®

**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.

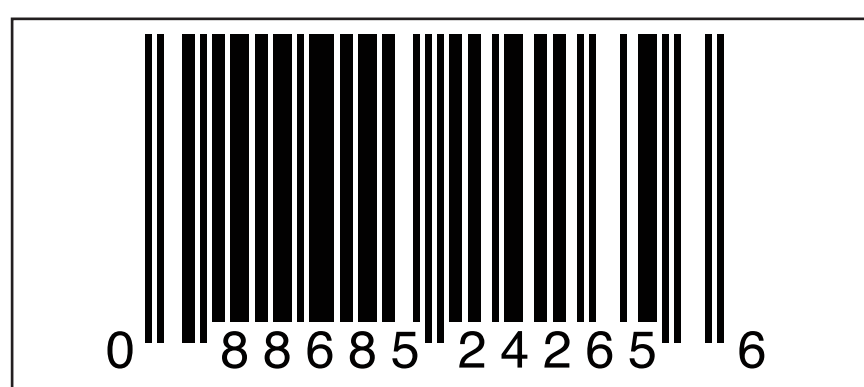
**Established Trees and Shrubs:** Broadcast 2 pounds per 100 square feet over soil or surface mulch.

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

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 1000 FT <sup>2</sup>	Earthway Drop Spreader	Earthway Broadcast Spreader	Scotts Drop AccuGreen	Scotts Drop Precision Green	Speedy Green	AccuPro 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 1/2 (3x)	W (3x)
Avg. width of spread	Overlap Wheels	13 feet	Overlap Wheels	Overlap Wheels	5 feet	10 feet Cone 8

Note: 2x means 2 passes



For technical assistance and information about our products visit [www.LebanonTurf.com](http://www.LebanonTurf.com)

Manufactured by: Lebanon Seaboard Corporation . 1600 E. Cumberland St. Lebanon, PA 17042 . Made in the USA . [www.LebanonTurf.com](http://www.LebanonTurf.com)

## 3-4-3 Natural Granular Fertilizer

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

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 <sub>2</sub> O) .....	3%
Calcium (Ca) .....	4%
Derived from: Meat and Bone Meal, Feather Meal, Peanut Skin Meal, Soft Rock Phosphate, Kelp Meal, Sulfate of Potash.	
*2.8% Slowly available nitrogen from meat and bone meal, feather meal, and peanut skin meal.	
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%
INERT INGREDIENTS .....	97.5%
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

**HEALTH AND SAFETY:** In case of skin allergic reaction(s), treat symptoms and contact physician. Avoid breathing dust. Gloves recommended. Wash hands after handling. In case of ingestion, seek medical attention.

Not labeled for use on food crop sites.

Caution to individuals with nut allergies, this product contains peanut skins.

Fertilizer may cause irritation of eyes, nose, throat, and skin. In case of contact with skin or eyes, flush with plenty of water; for eyes get medical attention. **Keep out of reach of children.**

**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.

### 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.



Net Wt: 25 Lb (11.3-Kg)

Expiration date: