

# Healthy Start® 3-4-3

Healthy Start 3-4-3 is a granular fertilizer formulated to address numerous aspects of soil fertility. It contains only natural fertilizer ingredients to provide a slowly releasing source of NPK, to immediately increase the organic content of the soil, and to improve microbial activity. In addition, the product contains six species of beneficial rhizosphere bacteria to provide a sustainable fertilizing effect. Use Healthy Start 3-4-3 as a general fertilizer when planting or potting, or as a topdressing on already established lawns and gardens.

## Healthy Start 3-4-3:

- Provides slow release NPK derived from natural sources
- Slowly releases its nutrients as it biodegrades
- Increases the organic content of the soil
- Acts as a food source for its beneficial bacteria
- Introduces six selected species of beneficial bacteria that fix nitrogen from the air, solubilize phosphorus, and release minerals from organic matter in the root zone
- Will not burn plants

## DIRECTIONS FOR USE

**SOIL AMENDMENT:** Apply 25 pounds per 1000 square feet. In very poor soil, double the rate.

**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-Lbs per cubic yard.

**POTTED PLANTS:** 1/4 pound per 1 gallon container.

**TOP DRESSING:** 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 1000 FT <sup>2</sup>	Earthway Drop Spreader	Earthway Broadcast Spreader	Scotts Drop Accu Green	Scotts Drop Precision Green	Speedy Green	AccuPro 2000
50 lb	23 (4x)	28 (8x)	18 (4x)	17 (4x)	18 (5x)	Z (6x)
25 lb	23 (2x)	28 (4x)	18 (2x)	17 (2x)	10 1/2 (3x)	W (3x)
Average width of spread	Overlap Wheels	13-ft	Overlap Wheels	Overlap Wheels	5-ft	10-ft Cone 8

Note: 2x means 2 passes.

## BIOFERTILIZER AND SOIL AMENDMENT TO INCREASE ORGANIC CONTENT & BIOACTIVITY

### GUARANTEED ANALYSIS 3-4-3

NUTRIENT	%By Weight
Total Nitrogen.....	3%
2.8% Water Insoluble Nitrogen	
0.2% Water Soluble Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	4%
Soluble Potash (K <sub>2</sub> O).....	3%

Derived from: Blood Meal, Fish Meal, Meat Meal, Feather Meal, Bone Meal and Natural Sulfate of Potash

SOIL/PLANT AMENDING INGREDIENTS	% by Weight
Humic acids .....	2%
Maltodextrin .....	0.2%
Fertilizer Ingredients .....	96.6%

**MICROBIAL CONTENT.....** 168 Million cfu/Lb

- 28 Million cfu/Lb *Bacillus licheniformis*
- 28 Million cfu/Lb *Bacillus megaterium*
- 28 Million cfu/Lb *Bacillus polymyxa*
- 28 Million cfu/Lb *Bacillus subtilis*
- 28 Million cfu/Lb *Bacillus pumilus*
- 28 Million cfu/Lb *Paenibacillus azotofixans*

INERT INGREDIENTS	1.2%
1.2% Leonardite (other than humic acids)	

Contains no manure, sewage or sludge ingredients

## STORAGE/SHELF LIFE

This product is stable in cool, dry storage conditions. See expiration date on package.

## HEALTH AND SAFETY INFORMATION

- In case of allergic reaction(s), treat symptoms and contact physician.
- Avoid breathing dust
- Wash hands after handling.
- In case of ingestion, seek medical attention.
- Keep out of reach of children.

## PACKAGING

- 25 Lb Bag
- 5 Lb Bag sold as Natural Start™ 3-4-3

## TECHNICAL ASSISTANCE

For technical assistance, call 1-800-421-9051

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