

# SUSTĀNE

Naturally...



# 4-6-4

## PLANT ESTABLISHMENT, MAINTENANCE, & SOIL BUILDER

**KNOWN WORLDWIDE FOR *SIMPLY THE BEST...*  
...NATURAL FERTILIZER & SOIL BUILDERS!**

## SUSTĀNE® 4-6-4 GRANULAR

### FASTEST STARTER AVAILABLE

#### Recommended Use

All purpose organic fertilizer for landscaped areas. Ideal for turf establishment grow in, over seeding, and sod installations. Used by professional turf managers, groundskeepers, nurserymen, master gardeners and professional growers around the world.

Sustāne 4-6-4 is a compost-based organic starter and maintenance fertilizer. It replenishes the soil with a rich supply of humus and all plant essential nutrients. Sustāne 4-6-4 provides a balanced mix of slow release nitrogen and other nutrients derived from biologically stable compost, natural potash, and feathermeal.

#### Professional Grade

Sustāne Natural Fertilizer is backed by over 30 years of independent applied research on diverse crops and ecosystems. Unmatched by any other organic fertilizer manufacturer, such research is the foundation for developing products that deliver value under a wide variety of growing conditions. The superior performance of Sustāne products is recognized by growers from around the world.



4-6-4 ORGANIC FERTILIZER DELIVERS A BALANCE OF NUTRIENTS, HUMATES, COMPOST-DERIVED MICROBIOLOGY AND SLOW RELEASE NITROGEN IN AN EASY-TO-SPREAD HOMOGENOUS GRANULE

### Benefits of Natural and Organic 4-6-4

- Adds approximately 5% humates by volume, increasing cation exchange and organic matter
- Increases nutrient and water holding capacity of the soil, strengthening plant tolerance to hot dry conditions
- Promotes healthy root development
- Improves buffering against changes in soil pH
- Increases the soil's ability to suppress plant pathogens
- Increases soil aggregate stability, porosity, and quality for greater root development and water holding capacity

### Landscapers' Choice

Professional landscapers, grounds keepers, and turfgrass managers have turned to Sustāne 4-6-4 for use on high maintenance turf and landscaped environments. While synthetic fertilizers supply plant growth nutrients, they do not supply the organic matter required to maintain quality growth. Using fully composted natural fertilizers increases the levels of beneficial microbial activity, which in turn convert nutrients into plant available forms.

### Turf Establishment

Turf establishment accelerates with 4-6-4 All Natural Organic Fertilizer from Sustāne. A complete package containing Slow Release Nitrogen, chelated micronutrients, organic phosphorous and humic substances. Sustāne 4-6-4 has been demonstrated time and again to surpass synthetic turf starter fertilizers and other sources of humates and plant biostimulants.



## APPLICATIONS AND RATES

### Turf Coverage

50 lb. covers 2000 ft<sup>2</sup> @ 2 lb. N per 1000 ft<sup>2</sup> (44 lb. N per acre)  
 22.67 kg covers 186 m @ 0.5 kg N per 100 m<sup>2</sup> (50 kg N per ha)  
 25 lb. per 1000 ft<sup>2</sup> (12.5 kg per 100 m<sup>2</sup>)

### Warm Season Turf

*Athletic Fields, Parks and Lawncare*

Apply 4-7 times per season.

In Spring and Fall use 25 lbs. per 1000 ft<sup>2</sup> (12.5 Kg per 100m<sup>2</sup>)

In Summer use 16 lbs. per 1000 ft<sup>2</sup> (8 kg per 100m<sup>2</sup>)

### Cool Season Turf

*Athletic Fields, Parks and Lawncare*

Apply 2-4 times per season at a rate not exceeding 25 lbs. per 1000 ft<sup>2</sup>



## SUSTĀNE INTEGRATED SOIL MANAGEMENT PROGRAM\*\*

For Turf Establishment, Seeding, New Lawn Construction, Laying Sod and Sprigging

**Preplant** - Broadcast and Incorporate into top 4 in. (10 cm) of soil

50 lb. per 1,000 ft<sup>2</sup> or 2,200 lb. per acre

25 kg per 100 m<sup>2</sup> or 2,500 kg per ha

**Postplant - 45-60 days**

Broadcast and water in 25 lb. per 1,000 ft<sup>2</sup> or 1,100 lb. per acre

12.5 kg per 100 m<sup>2</sup> or 1,250 kg per ha

**Overseeding** - Apply 25 lb. per 1,000 ft<sup>2</sup> at time of overseeding

**Hydroseeding** - Add 15 lb. per 1,000 ft<sup>2</sup> in tank with binder

### Soil Preparation For Flower & Shrub Beds

Light, High Sandy Soil: 6 lb. per 100 ft<sup>2</sup> of bed (30 kg per 100m<sup>2</sup>)

Medium, Clay Loam Soil: 4 lb. per 100 ft<sup>2</sup> of bed (20 kg per 100m<sup>2</sup>)

Heavy, Silty, Clay Loam: 2 lb. per 100 ft<sup>2</sup> of bed (10 kg per 100m<sup>2</sup>)

### Fertilizer Maintenance for Large Trees

Once trees have become well established, apply Sustāne into holes punched into the ground within tree crown drip line. Once the tree has developed a 4-6 inch diameter, increase application rate to 1 lb. of Sustāne per inch of tree trunk diameter.

\*NOTE: ADJUST FERTILIZER PROGRAM FOR LOCAL CONDITIONS AND REQUIREMENTS.

### Storage

Store in a cool, dry place. Do not expose to moisture or extreme temperatures. For best results, use by expiration date printed on label.

Item #	Package Size	Units / Pallet
<b>Sustāne 4-6-4</b>		
<i>FINE GRADE, 100 SGN (1.4 .mm - 0.6 mm)</i>		
30-20-1311	50 lb. bags	40 bags / pallet
30-20-1351	1-ton tote	1 tote / pallet
30-20-1375	50 lb. bags	44 bags / ISPM pallet
<i>MEDIUM GRADE, 200 SGN (2.8 mm - 1.4 mm)</i>		
30-20-1175	50 lb. bags	40 bags / pallet
30-20-1151	1-ton tote	1 tote / pallet
30-20-1175	50 lb. bags	44 bags / ISPM pallet

DISTRIBUTED BY:

ROUNDED MEASURE	WEIGHT GRAMS
1 teaspoon	2.8
1 Tablespoon	8.5
1/4 cup	34
1/2 cup	68
1 cup	136

### 4-6-4 Guaranteed Analysis

Total Nitrogen (N).....	4%
0.4% Ammoniacal Nitrogen	
0.4% Other Water Soluble Nitrogen	
3.2% Water Insoluble Nitrogen*	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	6%
Soluble Potash (K <sub>2</sub> O).....	4%
Calcium (Ca).....	4%
Magnesium (Mg).....	0.75%
Sulfur (S).....	1%
Iron (Fe).....	0.25%

*Derived from aerobically composted turkey litter, feather meal, bone meal, and sulfate of potash.*

\*3.2% slowly available nitrogen from aerobically composted turkey litter and feather meal

### Total Plant Nutrition

Magnesium.....	1.00%	Copper.....	0.05%
Sulfur.....	3.00%	Molybdenum.....	0.05%
Iron.....	0.50%	Boron.....	0.05%
Manganese.....	0.05%	Organic Matter.....	50%
Zinc.....	0.05%	Carbon:Nitrogen(C:N) ...	4:1
pH.....	6.8		
Bulk Density.....	36 lb./ft <sup>3</sup>		
C.E.C. Cation Exchange Capacity.....	104 meq/100 g		
% of Total N as Slow Release.....	80%		

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