



4-6-4

ORGANIC PLANT STARTER AND SUPPLEMENTAL FERTILITY

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

SUSTĀNE® 4-6-4 GRANULAR

FASTEST STARTER AVAILABLE

Recommended Use

Sustāne 4-6-4 is an organic slow-release fertilizer and soil builder ideally suited for plant establishment. Sustāne 4-6-4 also provides a high phosphorus and balanced N and K and Ca for bud formation during flowering. Sustāne 4-6-4 is specifically formulated to be gentle on plants, making it a go-to fertilizer for starting seed and applying to seedlings. Allowed for use in the production of certified organic crops. Trusted by nurserymen, master gardeners, farmers, and professional growers around the world.

Sustāne 4-6-4 is an all natural, 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 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

Safe for Plants, People and the Environment

- Manufactured by Sustāne in the USA at an EPA permitted facility
- Pathogen and weed seed free
- Contains no pharmaceutical waste
- Allowed for export to over 60 countries world wide.
- Derived from aerobically composted materials, so it won't attract insects or rodents to the application site
- Contains compost-based microorganisms to help replenish life in poor soils
- Fully tested and compliant with the national organic standards and the Food Safety Modernization Act requirements for fresh fruit and vegetable production

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 converts nutrients into plant-available forms.



Soil Preparation

Light, High Sandy Soil: 6 lb. per 100 ft² of bed (30 kg per 100m²)
 Medium, Clay Loam Soil: 4 lb. per 100 ft² of bed (20 kg per 100m²)
 Heavy, Silty, Clay Loam: 2 lb. per 100 ft² of bed (10 kg per 100m²)

Low Rate: Recommended for use on salt sensitive species; when concurrent with liquid feed; with production systems utilizing low leaching fractions (less than 10%); and when applied to heavy potting substrates (total porosity less than 65%).

Medium Rate: Recommended for use on medium feeding species; on most nursery stock and foliage plants; and when liquid feed is not performed concurrently.

High Rate: Recommended for use on heavy feeding species; with production systems utilizing high leaching fractions (greater than 20%); and when applied to light, porous substrates (total porosity greater than 80%).

***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.

Sustāne has developed research-based grow programs for indoor and outdoor Cannabis cultivation. Visit our website or contact us for more information on other Sustane products for growing medical marijuana and hemp for fiber or CBD.

4-6-4 BULK DENSITY

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

Item #	Package Size	Units / Pallet
Sustāne 4-6-4		
<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:



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 ₂ O ₅)	6%
Soluble Potash (K ₂ 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 ³		
C.E.C. Cation Exchange Capacity	104 meq/100 g		
% of Total N as Slow Release	80%		

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