



**Known Worldwide**  
*For Being Simply*  
**the Best...**  
**Natural Fertilizers**  
**& Soil Builders**

**Recommended Uses:**

*Sustane 4-6-4+Humates is all natural, slow release nitrogen plus natural phosphorous, potassium and all secondary and trace elements – high in organic content. 4-6-4+Humates is perfect for general soil building; landscape bed preparation, shrub and tree establishment, and incorporation into potting soils.*

**Description:**

*Sustane 4-6-4+Humates is made from Sustane aerobically composted turkey litter, hydrolyzed feather meal, sulfate of potash and naturally occurring humates. Designed to improve soil health and provide a full season nutrient supply. Available in both Medium Grade and Fine Grade particle sizes. Fine Grade granules are ideal for use with plug production to provide uniform distribution of nutrients in low volume pots.*

# 4 • 6 • 4

## + Humates

### SUSTANE® ALL NATURAL FERTILIZER & SOIL BUILDER

*Allowed for Certified Organic Production*

**Benefits of Sustane® 4•6•4+Humates**  
**Natural Organic Fertilizer**

- Adds approximately 12% humates by volume
- Increases the nutrient and water holding capacity
- Strengthens plants tolerance against hot, dry conditions
- Greater root development
- Improves buffering against changes in soil pH
- Increases the soil's ability to suppress plant pathogens
- Increases soil porosity and stability for greater root development and water holding capacity

**Container Media Fertilizing and**  
**Landscape Bed Preparation**

Excellent starter fertilizer for bedding plants and vegetable. All-Purpose organic soil builder. Fully composted natural Fertilizer increases the levels of beneficial microbial activity that converts soil-bound nutrients into plant available forms. *See application rates on back.*

**Turf Establishment, Overseeding**  
**and Revegetation**

Sustane® 4-6-4+Humates establishes new turf seed, sod, and sprigs at an accelerated rate. With no burn potential young seeds and seedlings are safe with Sustane®. This product is recognized and used by turf managers, golf and landscape architects and in land reclamation worldwide where ever fine turf, plants and prairies are grown.

**Organic Food Production**

Sustane® 4-6-4+Humates provides outstanding plant quality and yield for greenhouse plugs, vegetable crops, small grains, maize, rice and fruit including wine and table grapes, citrus, and berries. Organic growers have trusted and grown with Sustane® 4-6-4+Humates since 1988.

# Sustane® 4•6•4

ALL NATURAL

## Product Specifications

### Greenhouse, Nursery Container Mix & Landscape Application Rates

Container Mix Rates by Volume					
lb. per cubic yard			kg per cubic meter		
Low	Med	High	Low	Med	High
11	20	30	6.5	11.8	17.8

Landscape Application Rates by Area					
lb. per 1,000 square feet			kg per 100 square meter		
Low	Med	High	Low	Med	High
18	36	56	8.8	17.6	27.4

**Low Rate:** Recommended for 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.

**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%).

### Turfgrass Seed, Sod and Sprig Establishment Application Rates

**50 lb. per 1,000 ft<sup>2</sup> / 22 kg per 100 m<sup>2</sup>**

Broadcast after initial soil preparation; provide light incorporation to approximate depth of 1 in. (2.54 cm)

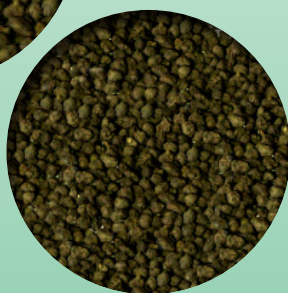
Seed or sod and roll surface for seed-soil contact and surface smoothness. Irrigate as needed.

Follow up application at 4–6 weeks at 25 - 40 lb. per 1,000 ft<sup>2</sup> or 11 - 18 kg per 100 m<sup>2</sup>

#### Available particle sizes:

Medium Grade, 200 SGN (2.8 mm - 1.4 mm)

Fine Grade, 100 SGN (1.4 mm - 0.6 mm)



#### Guaranteed Analysis

Total Nitrogen (N) .....	4%
0.4% Ammoniacal Nitrogen	
0.4% Water Soluble Organic Nitrogen	
3.2% Water Insoluble Organic Nitrogen*	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	6%
Soluble Potash (K <sub>2</sub> O).....	4%
Calcium (Ca).....	4%
Derived from aerobically composted turkey litter, feather meal, sulfate of potash and lignite.	
*3.2% slowly available nitrogen from aerobically composted turkey litter and feather meal	

#### Total Plant Nutrition

Magnesium .....	1%	Copper.....	0.05%
Sulfur .....	3%	Molybdenum.....	0.05%
Iron .....	0.5%	Boron.....	0.05%
Manganese .....	0.05%	Humic Acid .....	12%
Zinc.....	0.05%	Organic Matter.....	50%
pH .....	6.8	Carbon:Nitrogen(C:N).....	4:1
Bulk Density lb./cu. ft .....	44 lb.	Salt Index (scale 1-100).....	4
C.E.C. Cation Exchange Capacity.....	104 meq/100 g		
% of Total N as Slow Release.....	80%		

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[www.sustane.com](http://www.sustane.com) | Made in the USA



QUALITY GROWTH THROUGH HEALTHY SOIL™