

# SUSTANE® 16-4-8

## 180-Day Controlled Release Fertilizer

Designed for Professional Nursery, Greenhouse & Landscape

### Guaranteed Analysis

Total Nitrogen (N).....	16%
11.0% Urea Nitrogen*	
1.8% Nitrate Nitrogen*	
0.2% Ammoniacal Nitrogen*	
0.4% Slowly Available Water Soluble Nitrogen	
2.6% Water Insoluble Organic Nitrogen**	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	4%
Soluble Potash (K <sub>2</sub> O).....	8%
Calcium (Ca).....	2.75%
Magnesium (Mg).....	0.72%
Sulfur (S combined).....	1.93%
Iron (Fe).....	0.22%
Manganese (Mn).....	0.05%
Copper (Cu).....	0.02%
Molybdenum (Mo).....	0.04%
Boron (B).....	0.03%

Derived from aerobically composted turkey litter, polymer coated urea, polymer coated potassium nitrate, polymer coated mono-ammonium phosphate, ureaform, hydrolyzed feather meal and sulfate of potash.

\*12.7% controlled release nitrogen derived from polymer coated urea, polymer coated potassium nitrate and polymer coated mono-ammonium phosphate.

\*\*2.6% slow release nitrogen derived from aerobically composted turkey litter, ureaform and hydrolyzed feather meal.

Store in a cool dry place. Keep out of

### Product Description:

Sustane 16-4-8 was developed as an organic and polymer coated combination fertilizer to provide nursery stock with the best of both organic and controlled released fertilizers (CRF). Sustane 16-4-8 provides all essential plant nutrients in both controlled release and slow release organic form by combining coated fertilizers with nutrient rich aerobically composted turkey litter. The Sustane component undergoes a 26-week aerobic composting process ensuring that the finished product is stabilized yet biologically active. The controlled release portion of the material is comprised of industry-leading, polymer coated urea, polymer coated mono-ammonium phosphate and polymer coated potassium nitrate. Nutrient release rates from Sustane 16-4-8 are based on soil or substrate temperature and microbial activity. The sophisticated two mechanism release matches plant nutrient requirements over the production cycle and prevents dumping of nutrients.

### Direction for Use:

Sustane 16-4-8 180-day provides constant release of nutrients for approximately 180-days when used with container substrates with average temperature of 70°F / 21°C. When determining application rates consider all cultural practices including irrigation, container substrate physical characteristics and growing environment.

**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%).

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

### Container Topdressing Application Rates in grams

Rate	Container Size								
	5" Std.	6" Std.	1 gallon	2 gallon	3 gallon	5 gallon	7 gallon	10 gallon	15 gallon
Low	5	8	12	26	46	74	105	128	137
Med	7	12	19	40	69	111	158	191	205
High	10	17	26	55	97	155	221	268	287

### Container Mix & Landscape Application Rates

Container Mix Rates by Volume					
lb. per cubic yard			kg per cubic meter		
Low	Med	High	Low	Med	High
5	9	12.5	3.0	5.3	7.4

Landscape Application Rates by Area					
lb. per 1,000 square feet			kg per 100 square meter		
Low	Med	High	Low	Med	High
10	18	24	4.9	8.7	11.7

### Bulk Density of Sustane 16-4-8 180-day

Rounded Measure (volume)	Grams (weight)
1 teaspoon (tsp)	3.1
1 Tablespoon (Tbs)	9.3
1 oz.	18.6
1/4 cup	37.2
1/2 cup	74.4
1 cup	148.8

- These rates are intended as guidelines. Sustane encourages a trial prior to changing any fertilizer program.
- Do not store container mix more than two weeks after incorporating fertilizer. Plant material can be damaged from salt accumulation.
- If mix is stored longer than two weeks, leaching container mix may be required to remove accumulated salts
- Do not steam sterilize container mix after fertilizer has been incorporated
- Monitor electrical conductivity (EC) of container substrate throughout production cycle. Adjust application rate as needed.

# Net Wt. 50 lb. (22.67 kg.)



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