

# ORGANIC PLANT STARTER & SOIL BUILDER

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

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

# SUSTÅNE® 4.6.4 GRANULAR

## **FASTEST STARTER AVAILABLE**

# Recommended Use

Suståne 4-6-4 is an organic slow release starter fertilizer and soil builder for all types of plants. Ideal in-furrow starter applications on agronomic crops, and general feeding of specialty crops such as vegetables, roots, herbs, fruits, and flowers. Allowed for use in the production of certified organic crops. Trusted by nurserymen, master gardeners, farmers, and professional growers around the world.

Suståne 4-6-4 is an all natural, compostbased organic starter and maintenance fertilizer. It replenishes the soil with a rich supply of humus and all plant essential nutrients. Suståne 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**

Suståne Natural Fertlizer 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 Suståne products is recognized by growers from around the world.









# **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 Sustane 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

# Field Trials on Small Grains: Sustane 4-6-4 vs. a standard synthetic

Suståne natural fertilizers are backed by research, crosschecked and verified by independent labs with third party testing and university field trials.

Crop	MAP 11-51-0 at 50 lb. N per Acre	Suståne 4-6-4 at 50 lb. N per Acre	Yield Increase	Change
Barley	42.6 bushels	53.6 bushels	11 bushels	25.8%
Wheat	31.8 bushels	35.5 bushels	3.7 bushels	11%
Oats	43.3 bushels	68.4 bushels	25 bushels	58%
Canola	18.5 bushels	20.2 bushels	1.7 bushels	9.5%

# SUSTANE 4-6-4 ORGANIC PLANT STARTER & SOIL BUILDER



# **CROP APPLICATIONS:**

Correction of the	T:	A sel Maile d	MOO fi2	II. /4000 ft2	0. 7
Crops Small Grains	Ilming	Appl. Method	cups/100 ft²	10./ 1000 π²	lb./acre
Soybeans					
Field corn	at seeding	In turrow	n/a	Z	100
Apples/fruit trees	annual	broadcast	4.5	15	600
Brassicas*					
DI dSSICdS	prepiarit	nicorporate	ک	20	900
Carrots					
Curcurbits (all vine crops	s) prepiant	Incoporate	9		1200
Garlic	apply 3x per sea	sson topdress	1.5	5	200
Legumes					
Lettuce (head)					
	3 wk post transp	olant sidedress	9	30	1200
Onions	at transplant & 1	10" ht topdress	3	10	400
Peppers and Tomatoes.	preplant	incorporate	4.5	15	600
Potatoes	at seeding	direct on row	9	30	1200
Sweet Corn	preplant	starter	3	10	400
	sidedress	sidedress	4.5	15	600
Raspberries, year 1	at transplant	banded on row	6	20	800
Raspberries, year 2+	spring application	onsidedress	9	30	1200
Strawberries, year 1	at transplan/pre	runnerin row	7.5	25	1000
Strawberries, year 2+	at dormancy bre	eak topdress	12	40	1600
,,					
Flowers	pre or post plan	t broadcast	8	30	1200
Tomatoes	at transplant	sidedress 3-4" awa	y 17.2	57.4	2500

<sup>\*</sup>Includes broccoli, cauliflower, cabbage, kale, Chinese cabbage, bok choy, and mustard greens.

# Soil Preparation

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>)

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.

Item #	Package Size	Units / Pallet
Suståne 4-6-4		
FINE GRADE, 100 SGN (1.4 .mm - 0.6 mm)		
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
MEDIUM GRADE, 200 SGN (2.8 mm - 1.4 mm)		
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
	100-013	



### 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	

# 4-6-4 Guaranteed Analysis

Total Nitrogen (N)4%
0.4% Ammoniacal Nitrogen
0.4% Other Water Soluble Nitrogen
3.2% Water Insoluble Nitrogen*
A silable Discoulate (D. O.)

Available Phosphate (P2OE)	6%
Soluble Potash (K <sub>2</sub> O)	4%
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O) 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**

Total Flant Nutrition	
Magnesium 1.00%	Copper0.05%
Sulfur 3.00%	Molybdenum0.05%
Iron	Boron0.05%
Manganese 0.05%	Organic Matter50%
Zinc0.05%	Carbon:Nitrogen(C:N)4:1
pH6.8	
Bulk Density36 lb./ft <sup>3</sup>	
C.E.C. Cation Exchange Capacity	/104 meq/100 g
% of Total NI as Clay Poloasa	80%

V. 05292020

