



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

Recommended Use:
 Allowed for use in the production of certified organic crops, rapid vegetative establishment, erosion control, wetlands and burn area reestablishment, mine site reclamation, oil/gas remediation, and highway roadside establishment.

Description:
 Sustane® 4-6-4 All Natural Fertilizer promotes a rapid rate of vegetative establishment. Quick ground cover minimizes soil erosion and the need for repairs or re-seeding. Sustane® replenishes the soil with a rich supply of humus (stabilized organic matter) and all of the essential nutrients required for quality growth. Sustane® 4-6-4 All Natural provides a combination of plant nutrients and organic substances derived from biologically stable compost plus natural potash and feathermeal.

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SUSTANE

PLANT ESTABLISHMENT
ALL NATURAL FERTILIZER



Benefits of Sustane® 4•6•4

Natural Organic

- Adds approximately 10% humates by volume
- Increases the nutrient and water holding capacity of the soil
- Strengthens plants tolerance against hot dry conditions
- Promotes 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

Always Safe for Plants, People and the Environment

- Manufactured by Sustane® in the USA at an EPA permitted facility.
- Pathogen and weed free, no blood or bone products. Allowed for export to over 40 countries world wide.
- Aerobic composting eliminates animal and rodent attraction to application site.
- Contains the naturally occurring beneficial bacteria and fungi that are necessary to begin nutrient life cycle in poor soil.
- Sustane is fully composted eliminating the need for sterilization, permitting a healthy environment for beneficial microbial populations.

Field Trials on Small Grains

Sustane® 4-6-4 vs. a Standard Synthetic

Sustane 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	Sustane 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%

Sustâne® 4•6•4

ALL NATURAL

Product Specifications

Land Management, Native Restoration & Erosion Control Programs**

Hydroseeding

Mix with water solution at a ratio of 4 lb. Sustâne 4-6-4 to 1 gallon of water 2 tons per 1,000 gallon tank

For 44 lb. of N per acre apply 1100 lb.
For 90 lb. of N per acre apply 2200 lb.
For 130 lb. of N per acre apply 3400 lb.

Soil Preparation

- Light, High Sandy Soil:
6 lb. per 100 square feet of bed
- Medium, Clay Loam Soil
4 lb. per 100 square feet of bed
- Heavy, Silty, Clay Loam
2 lb. per 100 square feet of bed

Fertilizer Maintenance for Large Trees

Once trees have become well established, apply Sustâne 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 1.5 lb. of Sustâne per inch of tree trunk diameter.

**NOTE: Adjust fertilizer program for local conditions and requirements.

Sustâne® All Natural Fertilizers are allowed for use in production of certified organic crops.

Coverage

50 lb. covers 2000 ft² @ 1 lb. N per 1000 ft² (44 lb. N per acre)

22.67 kg covers 186 m² @ 0.5 kg N per 100 m² (50 kg N per hectare)

25 lb. per 1000 ft²
125 g per 1 m²

Crop Applications:

Crops	Timing	Appl. Method	cups/100 ft ²	lb./1000 ft ²	lb./acre
Apples/fruit trees	annual	broadcast	1 lb. per 1" tree dia	1 lb. per 1" tree dia	1 lb. per 1" tree dia
Brassicas*	at transplant & 4 leaf stage	broadcast	2.8	9.2	400
	2 wk. pre-crown set	sidedress	5.2	17.2	750
Carrots	at planting & 4wks pre-harvest	sidedress	1.4	4.6	200
Curcubits (all vine crops)	post plant	in row	8.2	27.6	1200
Garlic	apply 3x per season	sidedress	1.5	5.2	225
Grasses/Forages	preplant	broadcast	7.6	25.3	1100
	post emerge	broadcast	17.2	57.4	2500
Legumes	preplant	broadcast	6	20.2	880
Lettuce-high density (12-18")	at transplant & after 2 wks	sidedress	15.5	51.7	2250
Lettuce-low density (30")	at transplant & after 2 wks	sidedress	7.8	25.8	1125
Onions	at transplant & at 10" ht.	sidedress	1.9	6.4	280
Peppers	at transplant & pre-blossom	sidedress	2.4	8	350
Potatoes	at seeding	direct on row	11.3	37.9	1650
Raspberries, year 1	at transplant	banded on row	5.5	18.4	800
Raspberries, year 2	spring application	broadcast over row	2	6.9	300
Small Grains	at seeding	direct with seed	0.6	2.0	88
Strawberries, year 1	at transplant & pre-runner	in row	3.4	11.5	500
Strawberries, year 2	at dormancy break	broadcast over row	2.0	6.9	300
Sweet Corn, early	at planting	starter	5.5	18.4	800
	at layby	sidedress	2.8	9.2	400
Sweet Corn, mid-season	at planting	sidedress	5.5	18.4	800
Squash, hollow stem	pre or post plant	broadcast	6.9	23.0	1000
Tomatoes	at transplant	sidedress 3-4" away	17.2	57.4	2500

*Includes broccoli, cauliflower, cabbage, kale, Chinese cabbage, bok choy, and mustard greens.

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 ₂ O ₅)	6%
Soluble Potash (K ₂ O)	4%
Calcium (Ca)	4%
Derived from aerobically composted turkey litter, feather meal, and sulfate of potash.	

*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	7%
Zinc	0.05%	Organic Matter	50%
pH	6.8	Carbon:Nitrogen(C:N)	4:1
Bulk Density lb./cu. ft	36	Salt Index (scale 1-100)	4
C.E.C. Cation Exchange Capacity	104 meq/100 g	% of Total N as Slow Release	80%

Available particle sizes:

Medium Grade, 200 SGN (2.8 mm - 1.4 mm)
Fine Grade, 100 SGN (1.4 mm - 0.6 mm)

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www.sustane.com Made in the USA



QUALITY GROWTH THROUGH HEALTHY SOIL™