



SUSTANE
Naturally...

5-2-4

ALL NATURAL PLANT ESTABLISHMENT FERTILIZER

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

SUSTANE® 5-2-4 GRANULAR

Description:

Sustane 5-2-4 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 primary, secondary and minor nutrients essential for quality growth. Sustane 5-2-4 is derived from biologically stable compost plus natural potash and feathermeal.

Recommended Use:

Certified Organic, rapid vegetative establishment, erosion control, wetlands and watershed areas, native plant areas, dune and beach restoration, burn area reestablishment, mine site reclamation, oil/gas/coal right of ways and pipelines, highway roadside establishment, protected natural areas, forests, parks and landscapes.

Professional Grade

Sustane 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 Sustane's products is recognized by growers from around the world.

FOR SUSTAINED
NUTRITION IN
ENVIRONMENTALLY
SENSITIVE AREAS AND
FOR DEPLETED SOILS

Benefits of Sustane 5-2-4 All Natural, Slow-Release Nitrogen Fertilizer

- Adds approximately 8.5% humates by volume
- Increases 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
- Suitable for arid and saline soils, lowers transportation and application costs.
- Provides primary and secondary (macro and micro) nutrients necessary for plant growth
- 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.

Stabilized Organic Matter

Sustane 5-2-4 All Natural Slow Release Fertilizer was designed with the knowledge that the best way to grow quality plants is to develop and maintain a healthy soil. While synthetic fertilizers supply plant growth nutrients, they do not supply the organic matter required to maintain quality plant life.



LAND MANAGEMENT, NATIVE RESTORATION & EROSION CONTROL PROGRAMS**

For Revegetation: Final fertilizer recommendations should be based on laboratory soil tests and specific site conditions including but not limited to aspect and slope. Use high rates for soils low in organic matter, high in salts or pH and with steeper and southern facing slopes.

Application Information:

Sustāne 5-2-4 granulated slow release fertilizer and soil builder should be part of any revegetation program. Applications of Sustāne 5-2-4 will replenish the soil with a rich supply of humus and microbes which contribute to the efficient uptake of plant nutrients.

Coverage

50 lb. covers 2500 ft² @ 1 lb. N per 1000 ft² (44 lb. N per acre)
 22.67 kg covers 232 m² @ 0.5 kg N per 100 m² (50 kg N per hectare)
 20 lb. per 1000 ft² = 100 g per 1 m²

Hydroseeding

Mix solution at a ratio of 3.2 lb. Sustāne 5-2-4 to 1 gallon of water
 1.6 ton per 1,000 gallon tank (384 kg per 1,000 liter tank)

For 44 lb. of N per acre apply 880 lb.
 For 90 lb. of N per acre apply 1800 lb.
 For 130 lb. of N per acre apply 2600 lb.

Soil Preparation

- Light, High Sandy Soil: 5 lb. per 100 ft² (25 kg per 100 m²) of bed
- Medium, Clay Loam Soil 3.5 lb. per 100 ft² (17.5 kg per 100 m²) of bed
- Heavy, Silty, Clay Loam 2 lb. per 100 ft² (10 kg per 100 m²) of bed

Fertilizer Maintenance for Large Trees

Once trees have become well established, apply Sustāne 5-2-4 into holes punched into the ground within tree crown drip line. Once the tree has developed a 4-6 inch (10-15 cm) diameter, increase application rate to 1.5 lb. of Sustāne 5-2-4 per inch (270 g per cm) of tree trunk diameter.

**NOTE: ADJUST FERTILIZER PROGRAM FOR LOCAL CONDITIONS AND REQUIREMENTS.

Item #	Package Size	Units / Pallet
Sustāne 5-2-4		
<i>FINE GRADE, SGN 100</i>		
30-30-1311	50 lb. bags	40 bags / pallet
30-30-1351	1-ton tote	1 tote / pallet
<i>MEDIUM GRADE, SGN 200</i>		
30-30-1111	50 lb. bags	40 bags / pallet
30-30-1151	1-ton tote	1 tote / pallet

DISTRIBUTED BY:



5-2-4 Guaranteed Analysis

Total Nitrogen (N).....	5%
0.5% Ammoniacal Nitrogen	
0.5% Other Water Soluble Nitrogen	
4.0% Water Insoluble Nitrogen*	
Available Phosphate (P ₂ O ₅).....	2%
Soluble Potash (K ₂ O).....	4%
Calcium (Ca).....	3%

Derived from aerobically composted turkey litter, and sulfate of potash.

*4.0% slowly available nitrogen from aerobically composted turkey litter and feather meal

Total Plant Nutrition

Magnesium	1.13%	Copper	0.06%
Sulfur.....	1.19%	Molybdenum.....	0.03%
Iron.....	0.67%	Boron.....	0.03%
Manganese	0.05%	Humic Acid.....	8.5%
Zinc	0.04%	Organic Matter.....	50.0%
pH.....	7.0	Carbon:Nitrogen(C:N)....	5.1
Bulk Density lb./cu. ft..	36 lb.		
C.E.C. Cation Exchange Capacity	104 meq/cm		
% of Total N as Slow Release	80%		

PARAMETER (SRD) INDEX	SUSTĀNE COMPOST ENUMERATION	SUSTĀNE DIVERSITY (SRD) INDEX	EXAMPLE MODERATE DIVERSITY
Aerobic Heterotrophic	5.9 x 10 ⁹ CFU /gdw*	2.0	1.6
Anaerobic Bacteria	8.7 x 10 ⁷ CFU /gdw	0.9	0.8
Yeasts and Molds	2.7 x 10 ⁵ CFU /gdw	0.4	0.8
Actinomycetes	5.0 x 10 ³ CFU /gdw	0.8	0.9
Pseudomonads	8.5 x 10 ⁸ CFU /gdw	0.7	0.5
Nitrogen-Fixing Bacteria	1.0 x 10 ³ CFU /gdw	-0.3	0.3
Total Species Richness Diversity Index (SRDI)		4.5	4.9
*Colony forming units per gram dry weight			

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