

SUSTÅNE®

NATURAL & ORGANIC FERTILIZERS & SOIL BUILDERS



Hydro-seeded Bermudagrass Establishment Trials on Florida phosphate mine tailings slope. Photo taken two weeks after seeding. Center treatment: 4,000 lb./ac. Suståne "GeoEarth" vs. 5,000 lb./ac. competing biotic soil media treatments, (upper and lower sections)

PRODUCT GUIDE & RECOMMENDATIONS FOR
EROSION CONTROL
& REVEGETATION

for Disturbed Soils and Environmentally Sensitive Areas



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

COMPLETE PLANT NUTRITION

Sustâne provides complete plant nutrition in safe, effective, and easy to apply granules. Sustâne products are derived from biologically stable humus-rich compost and contain both water soluble nitrogen (WSN) and slow release nitrogen (SRN), beneficial microbiology, and all 17 elements essential for plant photosynthesis. With a near-neutral pH, a low salt index and low ammonium nitrogen percentage, Sustâne will not cause seedling stress or plant fertilizer "burn". Sustâne products increase soil cation exchange capacity (CEC) by supplying humates and stable organic matter. Sustâne's organic and natural fertilizers provide soils with multiple benefits.

SUSTÂNE IS PROFESSIONAL GRADE

Sustâne Natural Fertilizer manufactures high quality fertilizers, soil amendments, and bio-stimulants. For over 30 years, the company has manufactured inputs that are simple, safe, and cost-effective to use. Sustâne products are used worldwide by hydro-seeders, farmers, greenhouse managers, soil blenders, landscapers, and professional turf managers. Sustâne's compost-based materials are "all-in-one" inputs supplying high quality organic matter, balanced nutrient profiles, humates, and beneficial microorganisms in a single package. USDA Biobased Certified and OMRI listed. Sustâne provides technical support and custom formulations for all types of growing environments.



SPECIFIED FOR REVEGETATION

ENHANCED ENVIRONMENT

- RAPID PLANT ESTABLISHMENT

- Sustâne fertilizers are long lasting and are weed seed free to promote all plants, grasses, and forbs establishment.
- Minimize soil erosion and weed growth, while reducing need for repairs, re-seeding and time required to achieve soil stabilization.

LOW ENVIRONMENTAL IMPACT ORGANIC BASED FERTILIZER

- Sustâne is biologically stable, pathogen-free, will not reheat, and will not attract animals, birds, or insects to establishment sites.
- Organic nitrogen is released slowly to the plant, minimizing loss to the environment.
- Longer nitrogen release saves energy and labor.
- Sustâne stimulates the natural cycling of soil nutrients.
- Sustâne reduces need for pesticides.

LOW CARBON FOOTPRINT USING RENEWABLE RESOURCES

- Made from natural renewable agricultural resources, Sustâne has a low carbon and greenhouse gasses (GHG) footprint.
- Sustâne contains no pharmaceutical waste products.
- Sustâne complies with regulatory mandate and exceeds health and safety standards.

REDUCED ENERGY REQUIRED FOR TRANSPORT AND APPLICATION

- With Sustâne, the energy required to transport and apply is reduced 4:1 vs. comparable NPK and organic matter supplied from wet, green waste compost.
- Granulated Sustâne simplifies handling allowing accurate and uniform application of fertilizer and reduced loss to the environment.

ABOUT SUSTÅNE

UNIQUE PROCESSES PRODUCE DISTINCTIVE PRODUCTS

ALLOWED FOR USE – APPLIED WITH CONFIDENCE

Suståne natural base fertilizers and soil amendments are allowed and specified for land application by landscape architects and civil engineers on residential, commercial, municipal, county, provincial, state, and federal land management areas. Suståne products are registered and compliant with several state Approved Products Lists for fertilizers and soil amendments.



BIOLOGICALLY RICH – MICROBIALLY DIVERSE

Through careful formulation and manufacturing, Suståne's compost-based fertilizers are biologically rich and microbially diverse. Every Suståne granule contains millions of beneficial microorganisms that help cycle nutrients to promote rapid plant establishment and assist in suppression of common plant and soil-borne pathogens.

AEROBIC COMPOST - CONCENTRATED AND GRANULATED

The end product of controlled aerobic stabilization of organic material is humus. All Suståne fertilizers are built on a base of aerobically composted turkey litter over a 26-week stabilization process. Organic matter has been transformed into uniform humus. Soluble nitrogen has been converted to water insoluble slow release nitrogen (SRN) that will not burn plants, leach as nitrates, or volatilize into the atmosphere. The end product is safe to use, easy to apply, and predictable in plant growth response. Suståne products are formulated with natural minerals and other amendments including mycorrhizae, humates, etc. on request to meet specifications. Suståne is economical to transport and easy to apply at uniform agronomic rates. Nutrient levels are guaranteed. Soil physical structure is improved by the addition of glomalin and humic substances. Biological activity is restored to damaged or dead soils. Suståne is universally used in vegetative establishment for erosion control, land reclamation, and bioremediation of worn-out, and depleted soils.



Suståne's 26-week aerobic composting process assures that all raw materials have achieved thermophilic temperatures (135° to 155° F.) turning organic matter into safe and biologically stable nutrient rich humus. This is the organic base material from which all Suståne fertilizers are made. Composting temperatures are continuously monitored to assure only the highest quality compost.



Suståne's U.S. EPA permitted composting facility supplies nutrient-rich aerobic compost year round to its manufacturing facility. Suståne produces a wide range of organic, slow and controlled release fertilizers for professional growers worldwide.

SUSTAINABLE PLANT ESTABLISHMENT



A GREENER WORLD

As world demand for restoration of disturbed soil sites and the development of natural recreational areas increases, architects, planners, and regulatory authorities look for design, inputs and management practices that will produce the best possible product with the lowest environmental impact. Utilizing Sustâne products serve to augment native, ornamental, and agricultural crops' capacity to naturally sequester CO₂.

The resulting green product – the restored mine site, the new green roof, the highway right-of-way, the new landscape, the renovated sports pitch, the expanded or newly opened parkland – ultimately grows into a verdant open space for all to enjoy for generations to come.

SUSTÂNE BUILDS SOIL...

- Total plant nutrition, contains all the elements essential for plant photosynthesis.
- Produce rapid plant establishment with long-lasting fertility, reducing the need for repeat applications.
- Rich in humic substances and high in microbial diversity to help build and hold in place erosive soils.
- Tested and developed for varied climates and ecosystems since 1988.
- Manufactured from recycled, renewable agricultural materials and naturally occurring minerals.
- Low environmental impact.
- Sustâne products are used worldwide.



SUSTÅNE REPAIRS DEPLETED & DISTURBED SOILS

Suståne provides one of the most biologically diverse and microbially beneficial amendments for improving, rebuilding and remediation of erosive soils that are sterile, dead, or have poor physical structure. Suståne improves soil nutrient cycling and stabilization of soil aggregates. The product establishes a long-lasting soil-plant-microbial interaction that helps propel the natural cycles of ongoing soil building.



HUMIC SUBSTANCES IN SUSTÅNE

Suståne organic fertilizers provide natural sources of humates and humic substances formed during the aerobic composting process. Humic acid levels average 8% in Suståne 4-6-4 and 8-2-4. One ton of Suståne supplies approximately 160 lb. of humic acid.

ALL THE ELEMENTS ESSENTIAL FOR PHOTOSYNTHESIS

In addition to carbon, Suståne contains all elements known to be essential for plant photosynthesis to occur. Secondary and micronutrients are critical to plant health and soil productivity.

TYPICAL SECONDARY AND TRACE ELEMENTS IN SUSTÅNE

Average values from analyses of multiple samples over many years.

Suståne Product	2-3-3 Concentrated Compost %	4-6-4 %	5-2-4 %	8-2-4 %
Sulfur	2.06	2.88	2.24	1.75
Magnesium	0.79	0.65	0.57	0.37
Calcium	3.94	4.65	2.83	2.20
Iron	1.20	0.50	0.50	0.27
Aluminum	0.21	0.22	0.21	N/A
Manganese	0.06	0.05	0.05	0.03
Copper	0.02	0.02	0.02	0.03
Zinc	0.05	0.02	0.02	0.03
Humic Acid	5.50	7.80	8.82	9.16
pH (typical)	7	7	7	7
Total Carbon	32.0	27.2	30.0	31.3
Carbon:Nitrogen	16	6.8	6.0	3.9
Salt Index	3	5	6	4



SUSTÅNE APPLICATION METHODS

Broadcast - pre-plant or post-plant, drilled - shallow soil incorporation, and hydraulically applied - tank mixed with water, seed, mulch, and tackifier.



ORGANIC-BASED FERTILIZERS & SOIL AMENDMENTS







GRANULAR FORMULATIONS & BIOSTIMULANTS

Stream bed revegetation after fire with Sustane.
Hwy 67 near Deckers, Colorado

GRANULAR FERTILIZERS & SOIL BUILDERS

Sustane supplies these standard formulations listed below available in 40 x 50-lb. bags per pallet; ½-ton and 1-ton totes or bulk truckload.



<p>2 • 3 • 3 All Natural Organic Humus Rich Concentrated Compost</p>	<p>All natural nutrient rich, low salt, clean, concentrated compost for re-building depleted soils. Benefits of screened pure compost in a dry, concentrated form, minimizes transportation and application costs.</p>	<p>Sustane 2-3-3 All Natural Organic: For 44 lb. of N per acre apply 2200 lb. For 88 lb. of N per acre apply 4400 lb. Apply 1-3 tons per acre.</p>	<p>80% SRN*:  Course Grade 3.5 mm (300 SGN) *SRN: Slow Release Nitrogen</p>
<p>4 • 6 • 4 All Natural Organic Granular Fertilizer</p>	<p>All natural, granulated compost based fertilizer that provides soils with a rich supply of humus, and all macro and micro nutrients required for quality plant growth. Allowed by South Dakota DOT.</p>	<p>Sustane 4-6-4 All Natural Organic: For 44 lb. of N per acre apply 1100 lb. For 88 lb. of N per acre apply 2200 lb.</p>	<p>80% SRN  Medium Grade 2 mm (200 SGN)</p>
<p>5 • 2 • 4 All Natural Organic All Purpose Granular Fertilizer</p>	<p>All natural, granulated, compost based fertilizer provides soil with a rich supply of humus, and all of the essential nutrients required for quality growth. Approved by California DOT and Western Federal Highway Division and allowed by several other Western State DOT's.</p>	<p>Sustane 5-2-4 All Natural Organic: 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.</p>	<p>80% SRN  Medium Grade 2 mm (200 SGN)</p>
<p>8 • 2 • 4 All Natural Organic Slow Release Hi-N Granular Fertilizer</p>	<p>Sustane's highest nitrogen all natural granular fertilizer. Suitable for all vegetation when long term feeding is desired. 8-2-4 is ideal for high organic N. Slow Release Nitrogen and low burn potential.</p>	<p>Sustane 8-2-4 All Natural Organic For 44 lb. of N per acre apply 550 lb. For 88 lb. of N per acre apply 1100 lb. For 136 lb. of N per acre apply 1700 lb.</p>	<p>90% SRN  Medium Grade 2 mm (200 SGN)</p>
<p>Custom Formulations</p>	<p>Custom formulations are available in 10-ton minimum production runs to meet most job specification or site-specific requirements.</p>	<p>Please contact your regional Sustane representative or distributor.</p>	
<p>4 • 6 • 4 Organic SRN Root Zone Feeder Packs</p>	<p>21 gram packets of slow release N, P, and K fertilizer with Sustane organic fertilizer packed into a completely biodegradable paper filter pack. Provides organic microbiology and slow release fertilizer to provide nutrients for up to 3 months.</p>	<p>For inclusion into the root zone when planting shrubs, trees, and ornamentals. <i>21 gram feeder packs</i></p>	
<p>16 • 4 • 8 6-Month Root Zone Feeder Packs</p>	<p>21 gram packets of slow release N, P, and K fertilizer with Sustane organic fertilizer packed into a completely biodegradable paper filter pack. Provides organic microbiology and controlled release fertilizer to provide nutrients for up to 8 months.</p>	<p>For inclusion into the root zone when planting shrubs, trees, and ornamentals. <i>21 gram feeder pack</i></p>	

CONCENTRATED LIQUID PLANT GROWTH BIOSTIMULANT

Specifically developed to prepare plants for improved growth in sub-optimum and stress conditions. BOLSTER is a scientifically balanced formulation of cold processed seaweed extracts and humic acid which enhances root growth and helps reduce drought and traffic stress. Seaweed extract from *Ascophyllum nodosum* is an excellent source of auxins, cytokinins and gibberellic hormones, and trace minerals. These hormones are combined with humic extracts from Leonardite and chelated iron. BOLSTER's performance is proven in over 35 years of applied research and university testing. Apply either separate with boom sprayers with a water carrier at 20:1 dilution ratio or tank-mixed for hydro-seeding at 1-2 gallons a.i. per acre. Available in 2 x 2.5-gallon cases, 10 x 1 liter cases and 55-gallon drums.



SUSTÂNE MYCORRHIZAE PRODUCTS

A PROPRIETARY BLEND OF FOUR SPECIES

Magnification of stained root sample showing endospores and hyphae.

NEW! SUSTÂNE BOLSTER MYCOBIO

ENHANCED MYCORRHIZAL INOCULANT WITH BENEFICIAL MICROBES & HUMIC ACID

Specially formulated with a blend of Sustâne granules, endomycorrhizae species and select beneficial bacilli bacteria that improve seed germination, promote vigorous plant establishment and encourage nutrient use efficiency. This biologically enhanced granular soil amendment improves root growth, resulting in plants that are better able to withstand environmental stress. Beneficial microbiology and Sustâne propels soil-plant nutrient cycling.

- Delivers a minimum of 120 spores/g of Mycorrhizae and 100,000 CFU/g of beneficial bacteria
- Creates a symbiotic relationship with plant roots to optimize water and nutrient use
- Improves plants ability to suppress disease
- Mycorrhizae species include *Rhizophagus irregularis*, *Rhizophagus clarus*, *Septoglomus deserticola* and *Claroideoglomus etunicatum*
- Bacterial species include *Bacillus subtilis*, *Bacillus pumilus*, *Bacillus megaterium*, *Bacillus licheniformis*, and *Bacillus amyloliquefaciens*
- Available in 6-lb. canisters and 40-lb. bags



Growth of Kentucky blue grass in response to different mycorrhizal formulations. Plants treated with Sustâne MycoBio showed superior growth (left side) as compared to those receiving other test formulations (right side).

BOLSTER GRANULAR 4•4•4+3Fe with VA MYCORRHIZAE

STARTER FOR SEED, SOD, AND SHRUBS

BOLSTER GRANULAR contains a powerful, synergistic blend of mycorrhizae, nutrients, and plant biostimulants proven to promote rapid root development, superior growth, and help protect roots from

drought, stress, transplant shock, and pathogens. BOLSTER Granular increases root mass and depth. Preplant incorporate at 1,100 - 2,200 lb per acre.

Available in 25 and 50 lb bags and 1-ton totes.



MYCORRHIZAE from Sustâne®

ARBUSCULAR MYCORRHIZAL INOCULANT

Mycorrhizae forms symbiotic relationships between fungi and plants. The fungi colonize the root system of a host plant, providing increased water and nutrient absorption capabilities while the plant provides the fungus with carbohydrates formed from photosynthesis.

Sustâne utilizes four species selected for wide range of ecosystems and climates: *Rhizophagus irregularis*, *Rhizophagus clarus*, *Septoglomus deserticola* and *Claroideoglomus etunicatum*. Sustâne guarantees 120 propagules per cubic centimeter. Recommended application rates range from 20 to 60 lb. per acre applied with hydro-seed or seed drill.

Mycorrhizae are available from Sustâne in 40 lb. bags or custom blended into Sustâne fertilizers.

QUALITY GROWTH THROUGH HEALTHY SOIL.™



Stream bed revegetation after fire with Suståne.
Hwy 67 near Deckers, Colorado

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