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2565 FM 1096, Boling, TX 77420 · SigmaAgriScience.com

# Sigma 8-5-1 Bio

**With Value-Added Biologicals**

**8-5-1**

**FOR PROFESSIONAL USE ONLY**

## GUARANTEED ANALYSIS

| | |
|---|---|
| Total Nitrogen (N) | **8.0%** |
| 1.25% Water Soluble Nitrogen | |
| 6.75% Water Insoluble Nitrogen* | |
| Available Phosphate ($P_2O_5$) | **5.0%** |
| Soluble Potash ($K_2O$) | **1.0%** |
| Calcium (Ca) | **5.0%** |

Derived from meat and bone meal.

*6.75% slowly available water insoluble Nitrogen (N) from meat and bone meal.

## ALSO CONTAINS NON-PLANT FOOD INGREDIENT(S)

Soil Amending Guaranteed Analysis

Active Ingredient(s): 3% humic acids† derived from leonardite

**Contains 2.8 Million Total Beneficial Bacteria Colony Forming Units (CFU's) per Lb.**

| | | | |
|---|---|---|---|
| *Bacillus subtilis* | **1,050 CFU/g** | *Bacillus amyloliquefaciens* | **1,050 CFU/g** |
| *Brevibacillus laterosporus* | **2,090 CFU/g** | *Bacillus licheniformis* | **2,090 CFU/g** |

**Contains 6.1 Total Mycorrhizae / Endomycorrhiza Propagules per Lb.**

| | | | |
|---|---|---|---|
| *Glomus intraradices* | **0.0034 Propagules/g** | *Glomus mosseae* | **0.0034 Propagules/g** |
| *Glomus etunicatum* | **0.0034 Propagules/g** | *Glomus aggregatum* | **0.0034 Propagules/g** |

**Contains 480 Thousand Total Trichoderma Colony Forming Units (CFU's) per Lb.**

| | | | |
|---|---|---|---|
| *Trichoderma viride* | **530 CFU/g** | *Trichoderma harzianum* | **530 CFU/g** |

Total Other Ingredients (Inert as non-plant food ingredients): 97%

Purpose: Improve soil tilth, help increase establishment, root vigor and utilization of soil water & nutrients.

† Humic Acid content may aid in the uptake of micronutrients.

## APPLICATION RATES

### VEGETABLE

| | | |
|---|---|---|
| **Low rate** | Peas, beans | 300 lb per acre |
| **Medium rate** | Asparagus, beet, carrot, melon, pepper, cauliflower, broccoli, brussels sprout and celery | 950 lb per acre |
| **High rate** | Onion, sweet corn, potato, tomato | 950 lb per acre |

Incorporate 2-3 weeks prior to planting.

### CONTAINER SIZES (GRAMS PER CONTAINER)

| Gallon | 1 | 2 | 3 | 5 | 7 | 10 | 15 |
|---|---|---|---|---|---|---|---|
| Low rate | 27 | 54 | 81 | 108 | 162 | 198 | 216 |
| High rate | 54 | 108 | 171 | 234 | 351 | 423 | 449 |

### ORNAMENTALS

| | Incorporation, lb per cubic yard of media | Landscape, lb per 1,000 sq ft |
|---|---|---|
| Low rate (heavy substrates, porosity < 50%) | 14 | 24 |
| Medium rate (most nursery stock and foliage plants) | 22 | 41 |
| High rate (light substrates, porosity > 67%) | 27 | 59 |

### TREES & PALM (PER 1" OF TRUNK DIAMETER)

| | |
|---|---|
| **Incorporation** | 3 lb at transplanting |
| **Broadcast** | 6 lb at transplanting |

Incorporation: mix with soil in bottom of holes prior to transplanting. Rate is based on 1" of trunk diameter (caliper); for a 10" trunk diameter, multiply the label rate by 10.

### TURF AND GOLF COURSE

| | lb per 1,000 sq ft | lb N per 1,000 sq ft |
|---|---|---|
| Turf, medium rate (natural turf) | 9 | 0.75 |
| Turf, high rate (lawns) | 12 | 1 |
| Golf course, low rate | 6 | 0.50 |
| Golf course, medium rate | 9 | 0.75 |
| Golf course, high rate | 12 | 1 |

**Net Weight: 50 Lb. (22.68 kg)**

Available packaging: 2,000 lb totes (907 kg), 50 lb polyethylene bags (22.68 kg), or bulk load.

Guaranteed by: Sigma AgriScience, 2565 FM 1096, Boling, TX 77420

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**GRANCORE TECHNOLOGY** **ORGANIC INPUT MATERIAL**

## USE, STORAGE AND LEGAL STATEMENTS

**For PROFESSIONAL USE ONLY.** Apply every 6-8 weeks or according to your local crop advisor or site-specific nutrient plan. Store in a cool, dry area. Avoid prolonged exposure to direct sunlight. Lot number and expiration: see package.

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

Information about the application rate and components of this lot of fertilizer may be obtained by writing to the named guarantor. Please provide the lot number listed.

DO NOT EAT, FEED TO ANIMALS, OR ALLOW RUMINANTS TO GRAZE ON LAND UNTIL AFTER A RAINFALL OR IRRIGATION EVENT. APPLY THIS PRODUCT ONLY TO THE INTENDED APPLICATION SITE (IE. YOUR LAWN/GARDEN), AND SWEEP ANY PRODUCT THAT LANDS ON IMPERVIOUS SURFACES SUCH AS THE DRIVEWAY, SIDEWALK, OR STREET, BACK ONTO YOUR LAWN/GARDEN.

Check with your local Cooperative Extension Agency to obtain specific information on local turf best management practices. Check with your county or city government to determine if there are local regulations for fertilizer use. **In PA:** DO NOT apply to turf unless for the purposes of establishing vegetation for the first time, repairing a turf area, agricultural operations OR if following a site-specific plan based on a soil test. **In VA:** DO NOT apply more than 0.9 pounds of slowly available nitrogen per 1,000 $ft^2$ within a 30-day period. DO NOT apply more than 2.5 pounds per 1,000 $ft^2$ of slowly available nitrogen annually. DO NOT apply when the ground is frozen.

**Warranty Limitations:** The information contained on this label is believed to be accurate and reliable. There are no warranties that extend beyond the guaranteed analysis on the face hereof. All claims against guarantee are limited to replacement of product or refund of purchase price, or by law. The buyer and user acknowledge and assume all liability resulting from the use of this material. Timing, method of application, weather, crop conditions, and other factors are beyond the control of the seller. SIGMA AGRISCIENCE DISCLAIMS ALL OTHER WARRANTIES OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. In no event shall SIGMA AGRISCIENCE be liable for damages resulting from the use of this product and/or any special consequential or incidental damages of any kind.