

# Sigma 4-4-4 Bio Fine Grade

## With Value-Added Biologicals

### 4-4-4

#### Guaranteed Analysis

Total Nitrogen (N).....	4.0%
0.2% Ammoniacal Nitrogen	
0.6% Other Water Soluble Nitrogen	
3.2% Water Insoluble Nitrogen*	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	4.0%
Soluble Potash (K <sub>2</sub> O).....	4.0%
Calcium (Ca) .....	6.0%
Iron (Fe) .....	0.1%

Derived from processed poultry manure, bone meal, feather meal and sulfate of potash.

\*3.2% slowly available water insoluble Nitrogen (N) from processed poultry manure, bone meal and feather 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 amyloliquefacien.....	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

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#### AVAILABLE PACKAGING

2000 LB. TOTES (907 KG),  
 50 LB. POLYETHYLENE BAGS (22.68 KG),  
 OR BULK LOAD

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

## Application Rates

### Vegetable

#### Low Rate:

(Examples - peas, beans) Incorporate 1000 lbs. per acre 2-3 weeks prior to planting.

#### Medium Rate:

(Examples - asparagus, beet, carrot, melon, pepper, cauliflower, broccoli, brussels sprout, and celery) Incorporate 2500 lbs. per acre 2-3 weeks prior to planting.

#### High Rate:

(Examples - onion, sweet corn, potato, tomato) Incorporate 2500 lbs. per acre 2-3 weeks prior to planting.

## Container Sizes

#### Gallon:

Low Rate: 40 grams      High Rate: 75 grams

#### 2 Gallon:

Low Rate: 75 grams      High Rate: 150 grams

#### 3 Gallon:

Low Rate: 115 grams      High Rate: 240 grams

#### 5 Gallon:

Low Rate: 150 grams      High Rate: 325 grams

#### 7 Gallon:

Low Rate: 225 grams      High Rate: 490 grams

#### 10 Gallon:

Low Rate: 275 grams      High Rate: 590 grams

#### 15 Gallon:

Low Rate: 300 grams      High Rate: 625 grams

## Trees & Palm

Rate based on 1" of trunk diameter (caliper).  
 Example: for 10" trunk diameter (caliper) multiply label rate by 10.

#### Incorporation:

Mix with soil in bottom of holes prior to transplanting. Apply 6.0 lbs. at transplanting.

#### Broadcast:

Apply 12.0 lbs. at transplanting.

## Ornamentals

#### Low Rate:

(for heavy substrates with porosity < 60%)

#### Incorporation:

30 lbs. per cubic yard of media

#### Landscape:

49 lbs. per 1000 sq. ft.

#### Medium Rate:

(for most nursery stock and foliage plants)

#### Incorporation:

45 lbs. per cubic yard of media

#### Landscape:

86 lbs. per 1000 sq. ft.

#### High Rate:

(for light substrates with porosity > 80%)

#### Incorporation:

56 lbs. per cubic yard of media

#### Landscape:

124 lbs. per 1000 sq. ft.

## Turf

#### Medium Rate:

(Natural Turf)

19 lbs. (0.75 lb. N) / 1000 sq ft

#### High Rate:

(Lawns)

25 lbs. (1 lb. N) / 1000 sq ft.

## Golf Course

#### Low Rate:

12 lbs. (0.50 lb. N) / 1000 sq ft.

#### Medium Rate:

19 lbs. (0.75 lb. N) / 1000 sq ft.

#### High Rate:

25 lbs. (1 lb. N) / 1000 sq ft.

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

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. Expiration:

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapco.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<sup>2</sup> within a 30-day period. DO NOT apply more than 2.5 pounds per 1,000 ft<sup>2</sup> of slowly available nitrogen annually. DO NOT apply when the ground is frozen.

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