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

Sigma 4-3-2 Bio 2X

With 2X Value-Added Biologicals

4-3-2

FOR PROFESSIONAL USE ONLY

GUARANTEED ANALYSIS

Total Nitrogen (N)	**4.0%**
1.2% Water Soluble Nitrogen	
2.8% Water Insoluble Nitrogen*	
Available Phosphate (P_2O_5)	**3.0%**
Soluble Potash (K_2O)	**2.0%**
Calcium (Ca)	**7.0%**
Iron (Fe)	**0.1%**

Derived from processed poultry manure and leonardite.

* 2.8% slowly available water insoluble nitrogen from processed poultry manure.

ALSO CONTAINS NON-PLANT FOOD INGREDIENT(S)

Soil Amending Guaranteed Analysis
Active Ingredient(s): 6% humic acids† derived from leonardite

Contains 4.2 Million Total Beneficial Bacteria Colony Forming Units (CFU's) per Lb.

Bacillus subtilis	**1,570 CFU/g**	*Bacillus amyloliquefaciens*	**1,570 CFU/g**
Bacillus licheniformis	**3,130 CFU/g**	*Brevibacillus laterosporus*	**3,130 CFU/g**

Contains 9.4 Total Mycorrhizal Fungi Propagules per Lb.

Glomus intraradices	**0.0052 Propagules/g**	*Glomus etunicatum*	**0.0052 Propagules/g**
Glomus aggregatum	**0.0052 Propagules/g**	*Glomus mosseae*	**0.0052 Propagules/g**

Contains 716 Thousand Total Trichoderma Colony Forming Units (CFU's) per Lb.

Trichoderma viride	**790 CFU/g**	*Trichoderma harzianum*	**790 CFU/g**

Total Other Ingredients (Inert as non-plant food ingredients): 94%

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	800 lb per acre
Medium rate	Asparagus, beet, carrot, melon, pepper, cauliflower, broccoli, brussels sprout and celery	2,000 lb per acre
High rate	Onion, sweet corn, potato, tomato	2,000 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	30	60	92	120	180	220	240
High rate	60	120	192	260	392	472	500

ORNAMENTALS

	Incorporation, lb per cubic yard of media	Landscape, lb per 1,000 sq ft
Low rate (heavy substrates, porosity < 60%)	24	40
Medium rate (most nursery stock and foliage plants)	36	69
High rate (light substrates, porosity > 80%)	45	100

TREES & PALM (PER 1" OF TRUNK DIAMETER)

Incorporation	5.0 lb at transplanting
Broadcast	10.0 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)	15	0.75
Turf, high rate (lawns)	20	1.0
Golf course, low rate	10	0.50
Golf course, medium rate	15	0.75
Golf course, high rate	20	1.0

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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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.