



## SCD Bio Ag<sup>®</sup> Usage Guide

### What is SCD Bio Ag<sup>®</sup>?

SCD Bio Ag is an OMRI-listed blend of microorganisms and biological compounds designed for soil application use. It is produced through a natural fermentation process and it is not chemically synthesized, genetically engineered or modified.

### Household Uses

Application	Dosage / range of SCD Bio Ag	How to Apply
<b>Window Boxes and Indoor Plants</b>	<b>Instructions</b>	When planting, prepare dilution in spray bottle and mist planting holes and surface of loosened soil before placing and covering seeds. After planting, mist surface of plant with SCD Bio Ag or apply as an additive to the watering system every 7-10 days. Do not spray blooms.
General	½ - 1 tbsp. per 16 oz. water For more than 16 oz., 1.5 – 2 tbsp. per cup	Dilution of product to water is 1:100
Direct Planting	1.5 tsp. of product to 1 gal water	Dilution of product to water is 1:500
Transplanting	¾ - 1.5 tsp. of product to 1 gal. water	Dilution of product to water is 1:500-1000
<b>Yard Composting</b> for accelerated composting	½ - 1 tsp. per 2.2 lb. of waste	Dilute SCD Bio Ag (1:100) with water and saturate the compost. Apply every two weeks. Cover the compost for best results.
<b>Commercial Composting</b> for accelerated composting in large scale operations	1 – 1.3 gal per ton of waste	Spray SCD Bio Ag on the compost material. Make the second application in 7-10 days during the first turning of windrow.
<b>Lawn and Garden</b>	1 cup per 120 yd <sup>2</sup> (1080 ft <sup>2</sup> ) lawn or gardens	Dilute SCD Bio Ag with water (1:1000) and apply in spring and fall as a spray or as an additive to watering system. Apply once a month and water thoroughly after each application.
<b>Trees and Flowering Shrubs</b>	½ – 1 tbsp. per tree or shrub	For new plants, prepare soil and water with SCD Bio Ag dilution (1:1000). Let the soil sit for 1-2 weeks before planting. After planting or on established plants, spray soil and/or foliage with dilution every 2-3 weeks during the entire growing season. DO NOT spray blooms or they may drop.



<b>Foliar Spraying</b>	½ tbsp. per 16 oz. water in a spray bottle or watering can	Dilution of product to water is 1:500- 1:1000. This could be applied twice a month.
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## Agriculture Usages

<b>Application</b>	<b>Dosage / range of SCD Bio Ag</b>	<b>How To Apply</b>
<b>Agricultural Inoculant</b>	5-30 gal. per acre (4,080 yd <sup>2</sup> )	Apply as an additive to irrigation water. May add 5-30 gallons (20-115 liter) per acre per application. Number of applications is determined according to economic feasibility but with a maximum total of 60 gallons per acre per growing season. The dilution of application ratio may change in accordance with soil type and soil structure. Growing season could be during cool or warm seasons with some of these common subcategories: (a) before planting, (b) after planting / nursery / leaf bud stage, (c) before flowering, (d) after flowering / fruit formation, (e) ripening / before harvesting.
<b>Plant Propagation</b> (from leaf, stem, or root cuttings)	1/4 tsp. to 16 oz. water (3.5 mL to 500 mL)	Dilution of product to water is 1:100. To propagate in water: Introduce stem, vine, or root to diluted mix at room temperature. When new roots sprout, plant in soil moistened with dilution. To propagate in soil: Moisten soil with dilution and insert leaf or stem. Continue watering with dilution until plant is established.
<b>Foliar Spraying</b>	¾ - 1.5 tsp. of product to 1 gal. water	Dilution of product to water is 1:500-1:1000. This could be applied twice a month. For Citrus, use the solution 5 times every 2 weeks. For Vineyards, details are below: Spray once per month during winter, twice per week during spring, every week during summer, and within 48 hrs. before harvest.
<b>Orchard</b>	10-60 gal. per acre (4,080 yd <sup>2</sup> )	Spray SCD Bio Ag (1:1000 diluted with water) per growing season. Do not spray while blooming or blooms may drop. If applying product as an additive to irrigation water, refer to “Agricultural Inoculant” above. Growing season could be during cool or warm seasons with some of these common subcategories: (a) before planting, (b) after planting / nursery / leaf bud stage, (c) Before flowering, (d) After flowering / fruit formation, (e) Ripening / before harvesting.

<b>Treatment after harvest and storage</b>	2.5 Tbsp SCD BioAg to 1 gal. water	Dilution is 1:100. Spray directly on the produce within 48 hrs. before harvest, then spray the storage area as well.
<b>Seed Soak</b>	1:1,000 ¾ tsp. product per 1 gal. water	Soak small seeds: 5-10 minutes; Soak medium seeds: 10-20 minutes; Soak large seeds: 20-30 minutes.
<b>Hydroponic Systems</b>	1:10,000 ¾ tsp. product per 10 gal. water	Add dilution to system along with nutrient solution.

## **Crops or plants that can be treated with this Usage Guide include:**

Almonds, pecans, walnuts, corn, cotton, soybean, bean, onion, rice, carrots, cabbage, tomatoes, cucumber, peppers, garlic, celery, parsnips, root vegetables, greenhouse operations, sweet peppers, grapes, citrus, tobacco, wheat, cherries, apricots, apples, pears, peaches, plums, sour cherries, and sweet potatoes.

For customized applications, please contact [customerservice@scdprobiotics.com](mailto:customerservice@scdprobiotics.com) or send your inquiry to the SCD Technical department at <http://www.scdprobiotics.com/Articles.asp?ID=243>.

More information is available in the measurement converter table.

## Measurement Converter

US Measurements	Metric Equivalent
<b>Pound (lb.)</b>	<b>Kilogram (kg)</b>
1 lb	½ kg
2.2 lb	1 kg
<b>Teaspoon (tsp)</b>	<b>Milliliter (mL)</b>
1/4 tsp	1.2 mL
1/2 tsp	3 mL
3/4 tsp	3.7 mL
1 tsp	5 mL
<b>Tablespoon (tbsp)</b>	<b>Milliliter (mL)</b>
1/2 tbsp	7 mL
1 tbsp	15 mL
1.5 tbsp	22 mL
2 tbsp	30 mL
<b>Ounce (oz)</b>	<b>Milliliter (mL)</b>
16 oz	500 mL
<b>Cup</b>	<b>Liter (L)</b>
1 cup	1 L
<b>Gallon (gal)</b>	<b>Liter (L)</b>
1 gal	4 L
5 - 30 gal	20 - 115 L
10 - 60 gal	38 - 225 L
<b>Square yard (yd<sup>2</sup>)</b>	<b>Square meter (m<sup>2</sup>)</b>
1 yd <sup>2</sup>	0.8 m <sup>2</sup>
120 yd <sup>2</sup>	100 m <sup>2</sup>
<b>Square foot (ft<sup>2</sup>)</b>	<b>Square meter (m<sup>2</sup>)</b>
1 ft <sup>2</sup>	0.09 m <sup>2</sup>
1080 ft <sup>2</sup>	100 m <sup>2</sup>
<b>Square yard (yd<sup>2</sup>)</b>	<b>Acre (ac)</b>
1 yd <sup>2</sup>	0.0002 ac
120 yd <sup>2</sup>	0.02 ac
<b>Square foot (ft<sup>2</sup>)</b>	<b>Acre (ac)</b>
1 ft <sup>2</sup>	2.29 x 10e5 ac
1080 ft <sup>2</sup>	0.02 ac
<b>Acre (ac)</b>	<b>Hectare (ha)</b>
1 ac	0.4 ha

Some measurements are rounded off to the nearest whole number.