

# TECHNICAL DATA SHEET



## ***PRODUCT DESCRIPTION***

Synergistic Biology is a proprietary blend of natural sugars, vitamins, amino acids and beneficial bacteria. It is a natural microbial inoculant that provides a broad spectrum of micro-organisms, enzymes, vitamins and various organic acids which are key components for healthy soils, plants and animals. Synergistic Biology will not harm animals or humans and is safe for marine life. It can be used as an animal feed supplement, animal water treatment or a lake/pond inoculant as well.



### APPEARANCE

- Brown Liquid
- Sweet fermented odor

### TECHNICAL SPECIFICATIONS

- Specific Gravity: 1.02
- pH: 3.2-3.6
- Lbs./gal = 8.5

### GUARANTEED ANALYSIS

Nitrogen (N) Derived from Urea	1%
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### NON-PLANT FOOD INGREDIENTS

Proprietary blend of beneficial microbes, fungi, yeasts natural sugars, vitamins and organic acids.



### **Important Notice Regarding the Attached Information:**

The statements, technical information and recommendations contained in the accompanying document(s) are based on tests and data that are believed to be reliable. Further, as the actual use of our products by others is beyond our control, no guarantee of any kind is made as to the effects or such use, or the results to be obtained, whether the use is made in accordance with the recommendations or suggestions contained herein or otherwise. The accompanying document(s) is not contractual and NOTHING HEREIN CONSTITUTES A REPRESENTATION OR WARRANTY THAT THE GOODS DESCRIBED ARE FIT FOR THE PARTICULAR PURPOSE OF A CUSTOMER or that their use does not conflict with any existing patent rights. The exclusive source of any warranty and of any other customer rights whatsoever is on the invoice. Also, since the accompanying data sheet(s) may be provided by electronic media, we cannot guarantee the accuracy or originality hereof. Any alterations made to the accompanying document(s) other than by corporate headquarters is expressly prohibited.

# RATES AND DIRECTIONS



## FIELD AND TREE CROPS

Foliar Application	Apply 1 to 3 gallons per acre in at least 20 gallons of water every 2 to 4 weeks or as needed.
In Furrow Application	Apply at a rate 1 to 5 gallons per acre in at least 20 gallons of water.
Animal Consumption Water Treatment/Feed Additive	Contact your STSag consultant for rates.

### General Use Guide

#### Athletic Fields

Apply 1.0 to 3.0 gallons per acre in a minimum of 40 gallons of spray solution per acre. Repeat application every two to four weeks depending on conditions and desired effects. Establish an application schedule that allows treatments to immediately follow heavy traffic events providing for quicker recovery.

#### Golf Course Greens and Tees

Apply in fertilizer mix\* at 3.0 to 6.0 ounces per 1000 sq. ft. in a minimum of 40 gallons of spray solution per acre. Repeat application every two week intervals, then at least once per month to reduce and eliminate silt, slime and algae on greens and tees. (\*Apply with STSag Hydrate – 1 ounce per 1,000 square feet.) Use normal irrigation after application. If using a hand-held sprayer, use Synergistic Biology at 1 ounce per gallon of water (with .25 ounces of Hydrate per gallon of water).

#### Fairways

Apply 1.0 to 3.0 gallons per acre in a minimum of 40 gallons of spray solution per acre. Repeat application every two to four weeks depending on conditions and desired effects. Best results are obtained using the lower rate applied more frequently.

#### Lakes/Ponds

Initial application: Apply 2.5 gallons per acre-foot of water. Apply using a backpack or hand-held sprayer. Walk edges of the lake and spray towards the center. Maintain at a minimum of 1 to 2 gallons per acre-foot monthly or as needed due to rain.

### Special Use Guide

#### Aeration Recovery

Apply 3.0 to 6.0 ounces per 1000 sq. ft. in a minimum of 40 gallons of spray solution per acre immediately following aeration. Apply 6.0 ounces per 1000 sq. ft. with regular fertility program one week following aeration.

#### New Seedling Sod Establishment and Over-Seeding

Apply 6.0 ounces per 1000 sq. ft. in a minimum of 40 gallons of spray solution per acre. Repeat application every two weeks until seed germination or sod establishment. Once established, apply at 3.0 to 6.0 ounces per 1000 sq. ft. every two to four weeks depending on conditions and desired results.

#### Gardens, Lawns And Plantings

Apply at a rate of 3.0 to 6.0 ounces per 1000 sq. ft. Water plants and soil thoroughly to a depth of ½" to 1". Repeat every 14 to 21 days.

#### Vegetables and Ornamentals

Apply at a rate of 1 ounce (2 tbsp.) of concentrate per 1 gallon of water. Apply directly to soil. Repeat every 14 to 21 days.

#### Application Guideline

Shake product well prior to use. Do not allow to freeze.

