



CONTAINS NON-PLANT FOOD INGREDIENTS

4.0% Hydrophobic Fulvic Acids Derived from leonardite.

1.5% Carbon (C) Derived from leonardite.

Bacillus amyloliquefaciens	5.63 X 10 ⁵ cfu/ml
Bacillus licheniformis	2.25 X 10 ⁵ cfu/ml
Bacillus megaterium	4.5 X 10 ⁴ cfu/ml
Bacillus pumilus	3.38 X 10 ⁷ cfu/ml
Bacillus subtilis	1.01 X 10 ⁷ cfu/ml
Bacillus subtilis var natto	7.88 X 10 ⁶ cfu/ml
Bifidobacterium animalis	5.63 X 10 ⁵ cfu/ml
Bifidobacterium bifidum	7.88 X 10 ⁵ cfu/ml
Bifidobacterium longum	4.50 X 10 ⁵ cfu/ml
Lactobacillus acidophilus	3.38 X 10 ⁵ cfu/ml
Lactobacillus buchneri	1.53 X 10 ⁶ cfu/ml
Lactobacillus casei	1.35 X 10 ⁶ cfu/ml
Lactobacillus delbrueckii bulgaricus	2.25 X 10 ⁵ cfu/ml
Lactobacillus delbrueckii delbrueckii	1.01 X 10 ⁵ cfu/ml
Lactobacillus fermentum	4.50 X 10 ⁴ cfu/ml
Lactobacillus lactis	2.25 X 10 ⁴ cfu/ml
Lactobacillus plantarum	2.25 X 10 ⁴ cfu/ml
Rhodopseudomonas sphaeroides	9.00 X 10 ⁴ cfu/ml
Rhodopseudomonas palustris	1.13 X 10 ⁶ cfu/ml
Saccharomyces cerevisiae	9.00 X 10 ⁶ cfu/ml
Streptococcus salivarius	7.88 X 10 ⁶ cfu/ml
Trichoderma atroviride	6.00 X10 ⁶ cfu/ml
Trichoderma harzianum	7.50 X 10 ⁶ cfu/ml
Trichoderma koningii	3.00 X 10 ⁷ cfu/ml
Trichoderma intricatum	1.50 X 10 ³ cfu/ml
Trichoderma polysporum	3.00 X 10 ⁷ cfu/ml
Trichoderma viride	4.50 X 10 ⁶ cfu/ml
Total Biological Consortium	1.46 X 10 ⁸ cfu/ml

Expires _____ Density (68F) 8.5 lbs. per gallon(U.S.)

Net Volume _____ US Gallons
Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.htm>

PRODUCT INFORMATION

Bios HF is a concentrated microbial inoculum formulated with broad spectrum, beneficial bacillus, Rhodopseudomonas and Trichoderma fungi species. Bios HF is known as a Plant Growth Promoting Rhizobacteria (PGPR). This inoculum provides more than traditional plant nutrient uptake by promoting healthy soil biofilm on strategic root and plant surfaces. These AGBIOFILM® layers become strategic exchanges for nutrient flow and relief of crop stress. Carbon flows efficiently back and forth through these layers carrying nutrient to the plant and sugars back to the microbes. This exchange is the key for effective yield increase. Bios HF is rich in carbon and food for microbes.

Bios HF is a liquid substrate to establish AGBIOFILM® ecosystems in the soil, on the leaf surface and the root rhizosphere. Bios HF applications provide the best means to transport, propagate, and stabilize biological cultures on these AGBIOFILM® surfaces. Bios HF may be used as a Fulvic Acid/Humic Acid replacement. Bios HF stimulates root development, increases plant vigor, yield and quality of produce. Bios HF is recommended to provide, promote and sustain microbial activity in the soil by a three dimensional approach. 1. Supply known microbial species for organic, conventional agriculture and horticulture with guaranteed cfu/ml. 2. Provide a substrate of fulvic acid that helps to establish, culture and sustain microbial populations. 3. Deliver adequate nutrition to establish each microbial culture.

RECOMMENDED APPLICATION

Application and Rates: 5-50 GALLON/ACRE per year on all field crops. This product can also be used in the following ways; foliar, fertigation, drench, root stimulation, and in furrow at planting. Mix 8-16 oz. in 5 gallon of water for root dip and/or pre irrigation. Contact a local Valley Agronomics representative for more specific rates and instruction.

This product may be mixed with a variety of fertilizers and pesticides. Please call for further directions. Always perform a jar test to ensure compatibility

HANDLING AND STORAGE

Follow appropriate safety procedures. Skin contact may cause temporary staining. In case of accidental exposure, flush with plenty of water. Product is non-hazardous.

SHAKE/AGITATE WELL BEFORE USING.

Storage in a cone-bottomed tank to facilitate agitation is recommended. When stored in a cone-bottomed tank, agitate 10 minutes before application or transfer. When stored in a flat-bottomed tank agitate 30 minutes before application or transfer. Avoid air blast agitation as foaming will result. If foaming does occur through normal agitation, use an approved defoamer. Agitation prior to production transfer and application is required. Storage for longer than 12 months is not recommended.

CAUTION KEEP OUT OF REACH OF CHILDREN. CONTACT POISON CONTROL IF INGESTED.

WARRANTY

WARRANTY Valley Agronomics LLC is not responsible for the use or misuse of this product. To the extent allowable by state law, buyer's guarantee limited to label claims.

For use on: All Agricultural, Horticulture and Turf Crops

GENERAL INFORMATION

MADE IN THE USA
Valley Agronomics LLC
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