



Microbial Products

POWERED BY



3 Tier Technologies Microbial Solutions are advanced microbial products that have two distinct advantages over other microbial products. The principal advantages our blend offers is diversity of composition and size. We have identified that the largest biological component in soil is single cell bacteria. For this reason we have carefully selected five specific *Bacillus* genuses while including multiple species of each to create a very diverse microbial package. We also discovered that the current competitive products often contain between 100 and 300 billion microbes per gallon. **3 Tier** then created our microbial package to be concentrated with **757 billion colony forming units per gallon**, a nearly six-fold increase! Not only do we have an initial size advantage, we also established another critical advantage through our all-natural, proprietary, sugar-based preservative package, allowing the microbes to awake easily when mixed with water. This non-chemical preservative process converts to a valuable food source for exponential growth of microbes once diluted. Our concentrated, specially-selected microbes are strong enough to correct chemical and microbial imbalances and regenerate soils to a healthy state.

*All 3 Tier microbial products are now fortified with our **Bio-Cat Booster™** additive for maximum performance. Our non-microbial **Bio-Cat Booster™** is also now available as a stand alone soil supplement and Bio-Catalyst.*

Huma-Balance XL Soil Conditioner is driven by 3 Tier's natural **Activated Humic Acid Carboxx** combined with our enhanced plant and soil beneficial microbes. This formula increases natural organic structure while enhancing biological activity, detoxifies soil from salt and pesticide residues, accelerates root development, protects plants and soils against pathogenic diseases through combative inhabitation, and converts nutrients into available forms so that they can be transported from the soil into the cell membrane of the plant. **Huma-Balance XL** is OMRI Listed.

Huma-Balance XL Soil Conditioner

ALSO CONTAINS NONPLANT FOOD INGREDIENTS

Amino Acid Complex.....7%

Humic Acid.....3%

Total Carbon.....12%

Total Microbial Content 757 Billion cfu/gal
200 Million cfu/cc

Microbial Strains

**B. subtilis*..... 56 Million cfu/cc

**B. polymyxa* 11.5 Million cfu/cc

**B. thuringiensis* 65 Million cfu/cc

**B. lichenformis* 11.5 Million cfu/cc

**B. amyloliquefaciens*..... 56 Million cfu/cc

**B.* denotes all microbial strains as *Bacillus* Bacteria





Cal 86 Plus 6-o-o is a bio-available, calcium rich, complexed, liquid concentrate for the correction of calcium deficient soils. Bio-available calcium is essential to the health of grasses, crops and is critical for the formation, development, and strength of the plant's cell walls. In combination with this unique microbial package, this new formula increases natural biological activity, detoxifies soil from salt and pesticide residues, accelerates root development, protects plants and soils against pathogenic diseases through combative inhabitation and transports valuable nutrients from the soil into the cell membrane of the plant.

Cal 86 Plus 6-o-o Soil Conditioner

Total Nitrogen (N)	6%
6% Nitrate Nitrogen	
Calcium (Ca)	8%
8% Complexed Calcium	
Derived from Calcium Glucoheptonate and Calcium Nitrate	
ALSO CONTAINS NONPLANT FOOD INGREDIENTS	
Amino Acid Complex.....	7%
Total Carbon.....	3%
Total Microbial Content	757 Billion cfu/gal 200 Million cfu/cc
Microbial Strains	
*B. subtilis.....	56 Million cfu/cc
*B. polymyza	11.5 Million cfu/cc
*B. thuringiensis	65 Million cfu/cc
*B. lichenformis	11.5 Million cfu/cc
*B. amyloliquefaciens.....	56 Million cfu/cc

**B. denotes all microbial strains as Bacillus Bacteria*

Bio-Cat Booster is a natural, ultra concentrated, non-bacterial blend consisting of a complete complement of beneficial L-Amino acids, thousands of identifiable enzymes, coenzymes, and other proteins. **Bio-Cat Booster** is blended with a natural package of five different surface tension modifiers and is fortified with micro-nutrients to enhance the enzyme and microbial activity. **Bio-Cat Booster** works in harmony with indigenous micro-organisms and **3 Tier** microbial packages in the soil to act as a natural biocatalyst.

Bio-Cat Booster Soil Conditioner

Humic Acid.....	4%
Amino Acid Complex.....	32%
Total Carbon.....	10%

Derived from Brown Coal

General Application Guidelines:

General Applications: Apply 1.5 to 6 ounces of **3 Tier Microbial Products**, or 0.5 to 3.0 ounces **Bio-Cat Booster** per 1000 square feet of area in a minimum of 1 gallon of water. **3 Tier Microbial Products** are safe for application on most plants, crops and turf and can be applied every week to four weeks as needed. Apply light irrigation immediately after application and irrigate normally that evening unless product is applied in a finished spray solution greater than 60 gallons of water per acre. If product is applied as part of any protocol, irrigate as directed by program.

Note: **3 Tier Microbial Products** cannot be tank mixed with fungicides. Apply after fungicide applications for better soil bio-regeneration.

For maximum performance, apply all **3 Tier Microbial Products** in combination with **3 Tier Fertility & Supplement Products**. Contact your local **3 Tier Technologies** representative for specific programs and convenient specialty pre-mixes that will meet your special needs and expectations.

