



Fertility Products

3 Tier's fertility products are designed using our proprietary formulation and blending process. Food grade nutrients are scientifically blended to create a low salt liquid formula that contains an all-new uniquely processed humic/fulvic acid combination called **Carboxx**. **Carboxx** provides a fully activated, 98% water soluble humic/fulvic acid that increases the plants ability to absorb nutrients through its unique delivery system. **Carboxx** also buffers against burning and restores natural soil conditions, providing the essential building blocks for a balanced growing environment while making all nutrients more available for cellular uptake compared to conventional liquid nutrients.

Microbe 4.2 + 6.2 + 9.2

NPK Fertilizer Solution

Guaranteed Analysis

Microbe 4.2 + 6.2 + 9.2 is one of our most popular specialty products now offered in a Guaranteed Analysis. Our nutrient products **Root & Groom** and **Establish** have been proportioned with our complete **Huma-Balance XL** microbial package to create an easy to use pre-mix blend. This performance blend is designed specifically for general maintenance of hybrid putting surfaces and is ideal for new plant establishment in all turf or agricultural applications while providing a complete microbial booster for improved soil health.

	%W/W	%W/V
Total Nitrogen (N).....	3%	4.2%
0.72% Ammoniacal Nitrogen		
0.66% Nitrate Nitrogen		
1.62% Urea Nitrogen		
Phosphorus (P) soluble in water.....	4.4%	6.2%
Potassium (K) soluble in water.....	6.6%	9.2%
Derived From: Ammonium Hydroxide, Urea, Phosphoric Acid, Potassium Hydroxide, and Potassium Nitrate		

ALSO CONTAINS NONPLANT FOOD INGREDIENTS

Total Carbon.....	3%
Total Microbial Content.....	757 Billion cfu/gal
	200 Million cfu/c
Bacillus subtilis.....	56 Million cfu/cc
Baacillus polymxya.....	11.5 Million cfu/cc
Bacillus thuringiensis.....	65 Million cfu/cc
Bacillus licheniformis.....	11.5 Million cfu/cc
Bacillus amyloliquefaciens.....	56 Million cfu/cc

Establish 7 + 9.9 + 14.0

NPK Fertilizer Solution

Guaranteed Analysis

Establish 7 + 9.9 + 14.0 is a multi-use, liquid, soil or foliar fertilizer for new seed or plant establishment. **Establish** provides rapid absorption of critical nutrients needed for increased germination, improved rooting, early transplant development, and healthy seed or plant establishment. Unlike conventional fertilizers, **Establish** can be applied directly to the seed bed for maximum germination and plant development. This formula provides weeks of balanced nutrition and can be custom blended or applied with other **3 Tier Products**, providing a cost effective solution for plant starter packages and use in other **3 Tier** protocols.

	%W/W	%W/V
Total Nitrogen (N).....	5%	7.0%
1.20% Ammoniacal Nitrogen		
1.1% Nitrate Nitrogen		
2.70% Urea Nitrogen		
Phosphorus (P) soluble in water.....	7.1%	9.9%
Potassium (K) soluble in water.....	10.0%	14.0%
Derived From: Ammonium Hydroxide, Urea, Phosphoric Acid, Potassium Hydroxide, and Potassium Nitrate		

Maintain 11.2 + 9.9 + 9.2

NPK Fertilizer Solution

Guaranteed Analysis

Maintain™ 11.2 + 9.9 + 9.2 is a liquid foliar fertilizer that promotes top growth, improves root development, and aids damaged and diseased plants by increasing the plant's ability to uptake calcium, vitamins, and important enzymes. Regular use of **Maintain** provides balanced N-P-K required for consistent, dependable growth that eliminates the peaks and valleys of traditional fertility programs.

Maintain should be applied in combination with all **3 Tier Products** throughout the growing season.

	%W/W	%W/V
Total Nitrogen (N).....	8.0%	11.2%
3.13% Ammoniacal Nitrogen		
0.42% Nitrate Nitrogen		
4.45% Urea Nitrogen		
Phosphorus (P) soluble in water.....	7.1%	9.9%
Potassium (K) soluble in water.....	6.6%	9.2%
Derived From: Urea, Phosphoric Acid, Potassium Hydroxide, and Potassium Nitrate		

Growth 22.4 + 2.48 + 9.2

NPK Fertilizer Solution

Guaranteed Analysis

Growth 22.4 + 2.48 + 9.2 is a low P & K liquid foliar fertilizer containing a higher percentage of high quality urea for greater plant response and growth. This formula is complemented with a lower percentage of the patented, heterocyclic, organic nitrogen compound called urea-triazone. Regular use of **Growth** provides immediate growth with a quality slow release for consistent, long term dependable growth.

	%W/W	%W/V
Total Nitrogen (N).....	16.0%	22.4%
1.0% Ammoniacal Nitrogen		
10.5% Nitrate Nitrogen		
4.5% Urea Nitrogen		
Phosphorus (P) soluble in water.....	1.77%	2.48%
Potassium (K) soluble in water.....	6.6%	9.2%
Derived From: Urea, Phosphoric Acid, Potassium Hydroxide, and Potassium Nitrate		

General Fertility Application Guidelines:

Foliar Applications: Apply 25 to 50 ml per 100 square meters in 4 to 10 liters of water. **3 Tier Fertility Products** are safe for application on most plants, crops and turf and can be applied every week to four weeks or as needed for desired plant growth. Let application dry on plant for 3 to 6 hours prior to irrigation or rainfall.

Note: **3 Tier Fertility Products** can be tank mixed with most products and pesticides though it is always recommended to jar test compatibility prior to tank mixing any new product combination.

For maximum performance, apply all **3 Tier Fertility Products** in combination with **Huma-Boost**, **Huma-Balance XL** or **Cal 86 Plus**. Contact your local **3 Tier Technologies** representative for specific programs and convenient specialty pre-mixes that will meet your special needs and expectations.

