



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.

Root & Groom™ 3-16-15 is rich in potassium and phosphorus. This liquid foliar fertilizer increases nutrient storage, providing stress relief. **Root & Groom** promotes the formation of chlorophyll, and the uptake of proteins, vitamins, and critical enzymes needed for root development. **Root & Groom** is highly beneficial for tournament preparation of turf, for improved yield production when applied as a foliar to the crop just prior to or at fruit set, and for plants just prior to harvest, transplant or installation. This formula will improve a plant's ability to combat the harmful effects of heat stress, frost damage, plant drought, or the shock of transplanting.

Root & Groom 3-16-15 Liquid Fertilizer

Guaranteed Analysis

Total Nitrogen (N)	3%
1.20% Ammoniacal Nitrogen	
1.80% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	16%
Soluble Potash (K ₂ O)	15%
Derived From: Ammonium Hydroxide, Urea, Phosphoric Acid and Potassium Hydroxide.	

Nitrate 4-0-8 is a liquid foliar fertilizer specially formulated from potassium nitrate and calcium nitrate. This ultra low salt, all nitrate based formula, is designed specifically to re-balance soils after a significant soil flush or heavy rain event. Since nitrate nutrients move freely with water, replacements of these critical nutrients are needed to re-establish and promote an optimum nitrate to ammonia ratio in the growing profile. This formula provides better nitrogen performance during cold weather events while providing improved wear tolerance and provides increased plant transpiration. Use **Nitrate** when Urea based fertilizers may promote increased disease pressure like snow mold.

Nitrate 4-0-8 Liquid Fertilizer

Guaranteed Analysis

Total Nitrogen (N)	4%
4.00% Nitrate	
Available Phosphate (P ₂ O ₅).....	0%
Soluble Potash (K ₂ O).....	8%
Calcium (Ca)	1.8%
Derived From: Potassium Nitrate and Calcium Nitrate	

Establish 5-16-12 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.

Establish 5-16-12 Liquid Fertilizer

Guaranteed Analysis

Total Nitrogen (N)	5%
1.90% Ammoniacal Nitrogen	
.20% Nitrate Nitrogen	
2.90% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	16%
Soluble Potash (K ₂ O)	12%
Derived From: Ammonium Hydroxide, Urea, Phosphoric Acid, Potassium Hydroxide, and Potassium Nitrate.	

Maintain™ 8-16-8 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.

Maintain 8-16-8 Liquid Fertilizer

Guaranteed Analysis

Total Nitrogen (N)	8%
3.13% Ammoniacal Nitrogen	
0.42% Nitrate Nitrogen	
4.45% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	16%
Soluble Potash (K ₂ O)	8%
Derived From: Ammonium Hydroxide, Urea, Phosphoric Acid, Potassium Hydroxide, and Potassium Nitrate.	



No-Phos 14-0-7 is a unique combination of nitrogen sources that achieves a balanced release of nitrogen in multiple forms. **No-Phos** combines urea, nitrate and organic forms of nitrogen that produces controlled growth while improving soil structure for sustained plant health. This new formula is Phosphorus Free and provides Potash for improved wear tolerance. This ultra-low salt formula is the perfect foliar fertilizer for regular use throughout the growing season, in cold weather, after flushing rain events, and when additional nitrogen is needed for strong growth. Use this product in conjunction with other 3 Tier products and programs.

No-Phos 14-0-7
Liquid Fertilizer

Guaranteed Analysis

Nitrogen (N).....	14%
3.50% Ammonical Nitrogen.	
3.50% Nitrate Nitrogen	
6.70% Urea Nitrogen	
0.30% Organic Nitrogen	
Phosphate (P ₂ O ₅)	0%
Potash (K ₂ O).....	7%

Derived From: Urea Ammonium Nitrate, Potassium Citrate and Fish Emulsion

Growth 16-4-8 QR (Quick Release)™ 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 QR** provides immediate growth with a quality slow release for consistent, long term dependable growth.

Growth QR 16-4-8
Liquid Fertilizer

Guaranteed Analysis

Total Nitrogen (N)	16%
1.00% Nitrate Nitrogen	
10.50% Urea Nitrogen	
4.50% Slow Release* Nitrogen	
Available Phosphate (P ₂ O ₅).....	4%
Soluble Potash (K ₂ O)	8%

Derived From: Urea, Phosphoric Acid, Potassium Hydroxide, and Potassium Nitrate. *4.50% Slow-Release Nitrogen from Urea Triazone

Nitro 21-0-0™ is 100% urea nitrogen blend for maximum growth. This unique nitrogen formula outperforms other foliar /soil nitrogen blends by remaining on the leaf surface longer in the liquid phase for increased absorption, reduced ammonia volatilization, greatly reduced burn potential, and a longer more uniform nitrogen release pattern. This low-salt formula is delivered by 3 Tier's unique Activated Humic Acid technology that dramatically reduces any potential for plant burn after application. This product can mixed and used with all 3 Tier products and program.

Nitro 21-0-0
Liquid Fertilizer

Guaranteed Analysis

Total Nitrogen (N)	21%
5.25% Ammoniacal Nitrogen	
5.25% Nitrate Nitrogen	
10.00% Urea	
Available Phosphate (P ₂ O ₅).....	0%
Soluble Potash (K ₂ O)	0%

Derived From: UAN

General Fertility Application Guidelines:

Foliar Applications: Apply 32 to 128 ounces of **3 Tier Fertility Products** per acre in a minimum of 10 gallons 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.

For New Seed or Early Plant Establishment: Apply 32-64 ounces of **Establish 5-16-12** per acre in a minimum of 10 gallons of water. For best results, apply solution directly to the seed bed during seed application. If direct application is not possible, apply directly to the soil immediately before or after seed application.

Soil Applications: Apply 32 to 128 ounces of **3 Tier Fertility Products** per acre in a minimum of 10 gallons of water. Water-in as needed for penetration into the soil profile. **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.

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.

