MICROSOLUTIONS®

PLANT AND SOIL HEALTH SOLUTIONS

UltraMate® LQ

UltraMate LQ liquid humate is a sulfonated potassium formulation. It forms a complete solution when added directly to liquid fertilizer, micronutrient, or pesticide formulations over a wide range of pH values. UltraMate LQ liquid humate is highly compatible allowing application methods which are unacceptable for conventional humic products, including tank mixing and drip irrigation. UltraMate LQ can also be used as a coating on dry fertilizer. UltraMate LQ liquid humate allows plants to utilize applied N, P, and micronutrients more efficiently, reducing leaching and improving soil structure.

FEATURES & BENEFITS

- **Stabilizes nitrogen, reducing volatility while increasing utilization**
- **Increases seed germination and nutrient availability**
- **Promotes phosphorus utilization and decreases leaching**
- **Mixes easily and stores well in totes and mixes**
- **Compatible with liquid fertilizer, micronutrient or pesticide formulations**
- **Up-front availability of humic and fulvic acids**
- **Wide range of pH compatibility: 2-12**
- **Wide range of application methods: foliar spray, soil application, drip irrigation, water run, hydrponically, or as a coating on dry fertilizer.**
- **Increase nutrient efficiency**

FREQUENTLY ASKED QUESTIONS

Q: What crops can UltraMate LQ liquid humate be used on?

A: UltraMate LQ liquid humate can be applied to all crops including row crops, fruits, vegetables, trees, vines, flowers, ornamentals, turf (including lawns, sod farms, commercial properties, athletic fields, golf greens, tees, and fairways), greenhouse plants, and other indoor crops.

Q: What is the humic acid content of UltraMate LQ liquid humate?

A: UltraMate LQ liquid humate contains 12% humic acid, which is a sulfonated potassium humate derived from leonardite.

Q: When should UltraMate LQ liquid humate be applied?

A: UltraMate LQ liquid humate is flexible and can be used with 2x2 placed starter, sidedress, as a coating on dry fertilizer, weed and feed, or as a residue management program.

Q: How should UltraMate LQ liquid humate be mixed?

A: UltraMate LQ liquid humate completely mixes when added directly to liquid fertilizer, micronutrient, or pesticide formulations over a wide range of pH values.

Q: What does UltraMate LQ liquid humate add to the soil?

A: UltraMate LQ liquid humate adds carbon, an essential element that helps stimulate beneficial microbes in soils with reduced humus. UltraMate LQ liquid humate improves the efficiency of applied macro and micronutrients in the plant, and its humic acid can help reduce soil salinity.

Q: How does UltraMate LQ liquid humate differ from other humic acid products?

A: UltraMate LQ liquid humate contains high quality humic acid. Its sulfonation sets it apart, allowing for ease of tank mixing, increased activity in low pH soils, and stability in storage when mixed.

Q: Can UltraMate LQ be mixed with crop protection products?

A: Yes, UltraMate LQ is compatible with many crop protection products as a tank mix partner. The Andersons recommends a compatibility (jar) test before field mixing and application. Always read and follow all individual product labels before use. For more information, visit AndersonsPlantNutrient.com/Tank-Mix.

See more frequently asked questions on page 2.

The Andersons®

FOR MORE INFORMATION

800-831-4815
png@andersonsinc.com
AndersonsPlantNutrient.com

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FREQUENTLY ASKED QUESTIONS *(continued)*

Q: Can UltraMate LQ be coated onto urea?

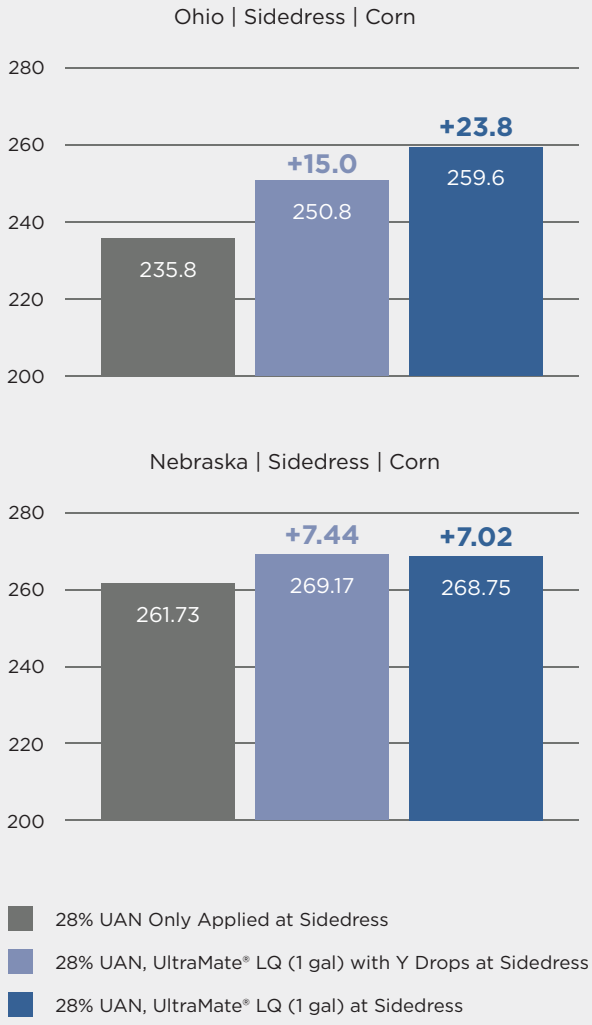
A: UltraMate LQ can be coated onto dry fertilizer blends containing urea up to 10% of the total blend. Coating UltraMate LQ onto urea will increase the efficiency of applied nutrients in the blend.

Q: How does UltraMate LQ help deduce nitrogen loss from volatilization?

A: Volatilization is the loss of nitrogen to the atmosphere as ammonia gas (NH_3). It occurs when urea nitrogen is converted to ammonia by the urease enzyme. UltraMate LQ sequesters the metal nickel, a key component needed by the urease enzyme in the conversion process.

RD-1340, RD-1345

ULTRAMATE® LQ



GUARANTEED ANALYSIS

Soluble Potash (K_2O)..... 2.0%
Sulfur (S)..... 1.0%
1.0%....Combined Sulfur

Derived from: potassium hydroxide, potassium sulfate, potassium humate

NON-PLANT FOOD INGREDIENTS

Active Ingredients
Humic Acid*..... 12.0%
Total Other Ingredients..... 88.0%

*Derived from Leonardite

PHYSICAL PROPERTIES

pH..... 9.1
Specific Gravity..... 1.08 @ 68°F
Density..... 9.2 lbs/gallon
Salt Out..... 30°F

APPLICATION

	Application	Use Rate (per acre)	Timing
Field & row crops; vegetable crops; soft & tree fruit	Soil	1-3 gallons	Before or at planting
	Foliar		Post emergence
	Coating on dry fertilizer	1/2 gallon per ton on dry fertilizer	With dry fertilizer application

UltraMate LQ application rates and frequency are dependent on soil and climate conditions. The typical application rates for corn are:

- **2x2 placed starter:** 10-15 gallons of UAN/10-34-0/ATS with 1.0-1.5 gallons UltraMate LQ/acre
- **Sidedress:** 20-50 gallons of UAN with 1.0-3.0 gallons UltraMate LQ/acre
- **Weed & Feed application:** UAN with 0.5-1.0 gallons UltraMate LQ/acre
- **Applying to Dry Fertilizer:** Apply to dry fertilizer during the final stages of blending at a rate 1/2 gallon per ton of fertilizer

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4R nutrient stewardship