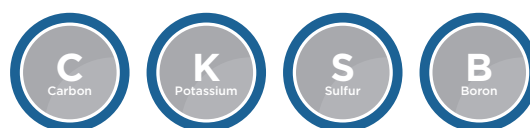


UltraMate[®] B

UltraMate B is a sulfonated potassium humate liquid with the additional benefits of boron. It completely mixes when added directly to liquid fertilizer, micronutrient, or pesticide formulations over a wide range of pH values. UltraMate B allows plants to utilize N, K, B, and other micronutrients more efficiently, reducing leaching and improving soil structure.



FEATURES & BENEFITS

- **Improves nitrogen availability, reducing volatility while increasing utilization of nutrients it is tank-mixed with**
- **Promotes phosphorus utilization and decreases leaching**
- **Provides boron to growing plants**
- **Provides up-front availability of humic and fulvic acids**

FREQUENTLY ASKED QUESTIONS

Q: On what crops can UltraMate B liquid humate be used?

A: UltraMate B 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 analysis of UltraMate B?

A: The analysis of UltraMate B is 0-0-2 + 1.0 S and 0.5 B containing 12% humic acid. The humic acid is a sulfonated potassium humate derived from Leonardite.

Q: When should UltraMate B liquid humate be applied?

A: UltraMate B is recommended for sidedress application, and may also be used with 2x2 placed starter fertilizer or with weed and feed applications.

Q: What is the role of boron in UltraMate B?

A: Boron is an essential micronutrient responsible for a variety of functions within the plant. Boron supports reproductive growth and plays a key role in flowering, pollination, and growth in corn tassels and ears. Boron is immobile in plants, meaning small applications throughout the season are most beneficial to the crop.

Q: What is the role of carbon in UltraMate B?

A: Carbon is an essential element that stimulates beneficial microbes in soils. As a liquid humic, this solution improves the efficiency of applied macro- and micronutrients in the plant, and its humic acid can help reduce soil salinity.

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

A: UltraMate B incorporates the benefits of both high-quality humic acid and boron. The sulfonation of the humic allows for easy tank mixing, increased activity in low pH soils, and stability in storage when mixed. UltraMate B also delivers boron, which is essential for many critical plant functions.

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

A: Volatilization is the loss of nitrogen to the atmosphere as ammonia gas (NH₃). It occurs when urea nitrogen is converted to ammonia by the urease enzyme. UltraMate B sequesters the metal nickel, a key component needed by the urease enzyme in the conversion process.

GUARANTEED ANALYSIS

Soluble Potash (K₂O)..... 2.0%
 Sulfur (S) 1.0%
 1.0%....Combined Sulfur
 Boron (B)..... 0.5%

Derived from: boric acid, potassium humate

NON-PLANT FOOD INGREDIENTS

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

*Derived from Leonardite

PHYSICAL PROPERTIES

pH..... 7.4
 Specific Gravity.....1.166 @ 68°F
 Density.....9.1 lbs/gallon
 Salt Out..... 29°F

APPLICATION

Crop	Application	Use Rate (per acre)
Row Crops	Pre-plant broadcast, 2x2, sidedress, weed & feed	1-3 gallons

UltraMate B 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 B/acre
- **Sidedress:** 20-50 gallons of UAN with 1.0-3.0 gallons UltraMate B/acre
- **Weed & Feed application:** UAN with 1.0-2.0 gallons UltraMate B/acre
- **Wheat topdress application:** 1-2 gal/ac added to the UAN solution

TISSUE TESTS SHOW INCREASED LEVELS OF N, P, K, AND SEVERAL MICRONUTRIENTS

Trials at AG Service, Iowa 2017

		Rating: Date Rating: Type Rating: Unit	9 Sep Yield BU	6 Jul N %	6 Jul P %	6 Jul K %	6 Jul Mg %	6 Jul Ca %	6 Jul S %	6 Jul B PPM	6 Jul Zn PPM	6 Jul Mn PPM	6 Jul Fe PPM	6 Jul Cu PPM
UAN	V2 Sidedress	47 gal/A	2076	2.47	0.032	1.9	0.24	0.7	1.9	2	14	72	99	8
UAN + BorreGRO HA-1	V2 Sidedress	47 gal + 1 gal/A	216.6	2.81	0.033	1.7	0.29	0.756	1.8	3	20	89	109	8



FOR MORE INFORMATION

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