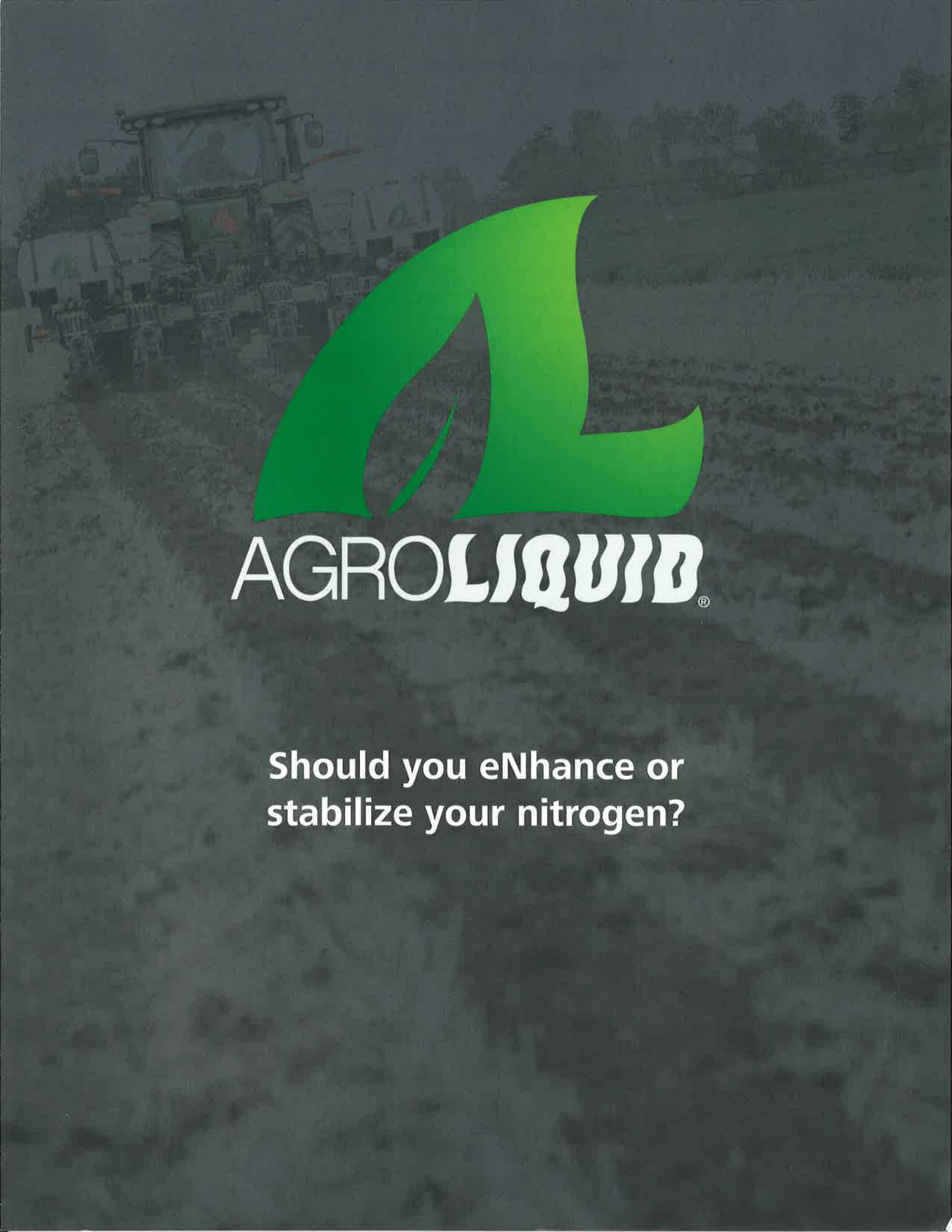
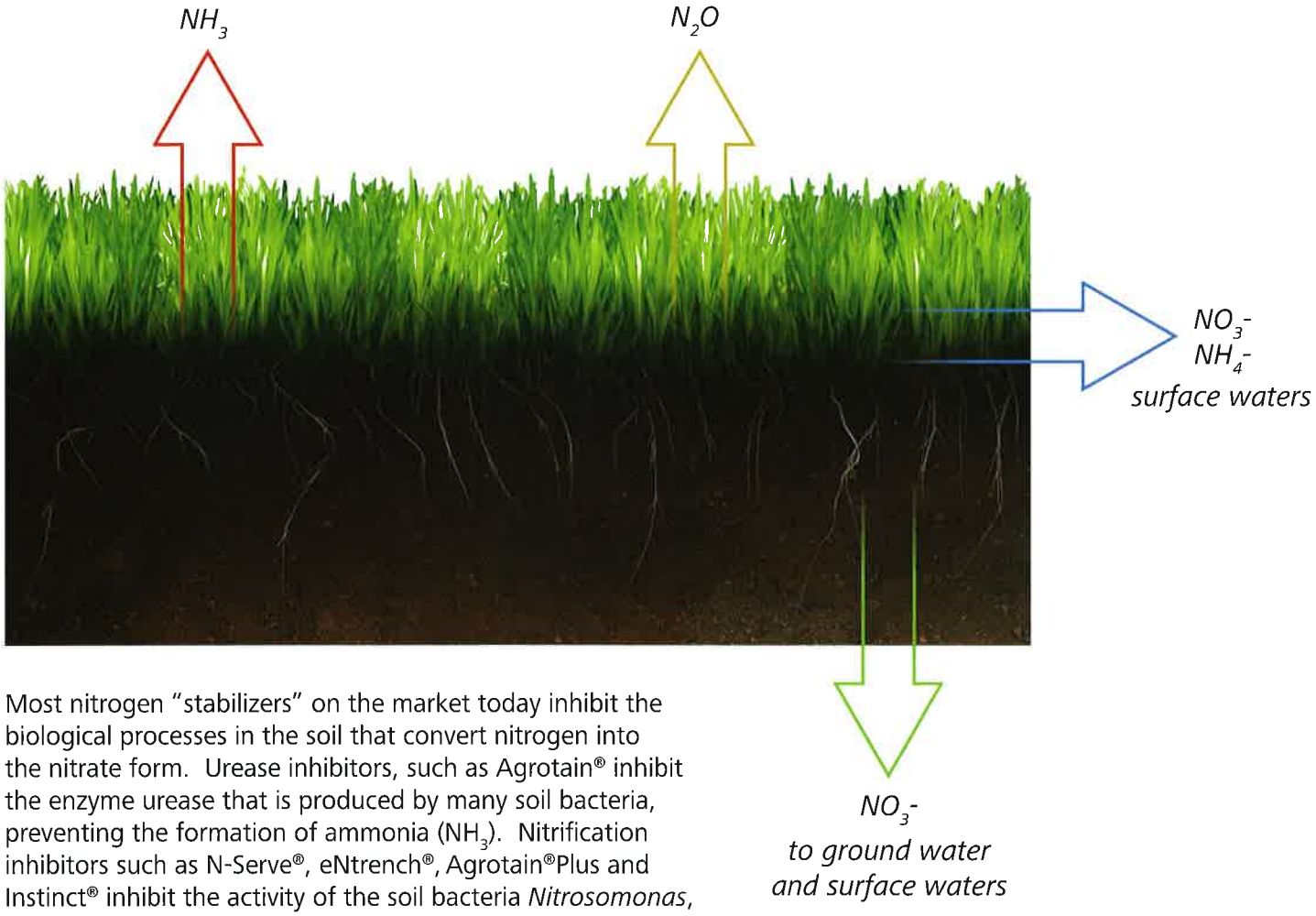


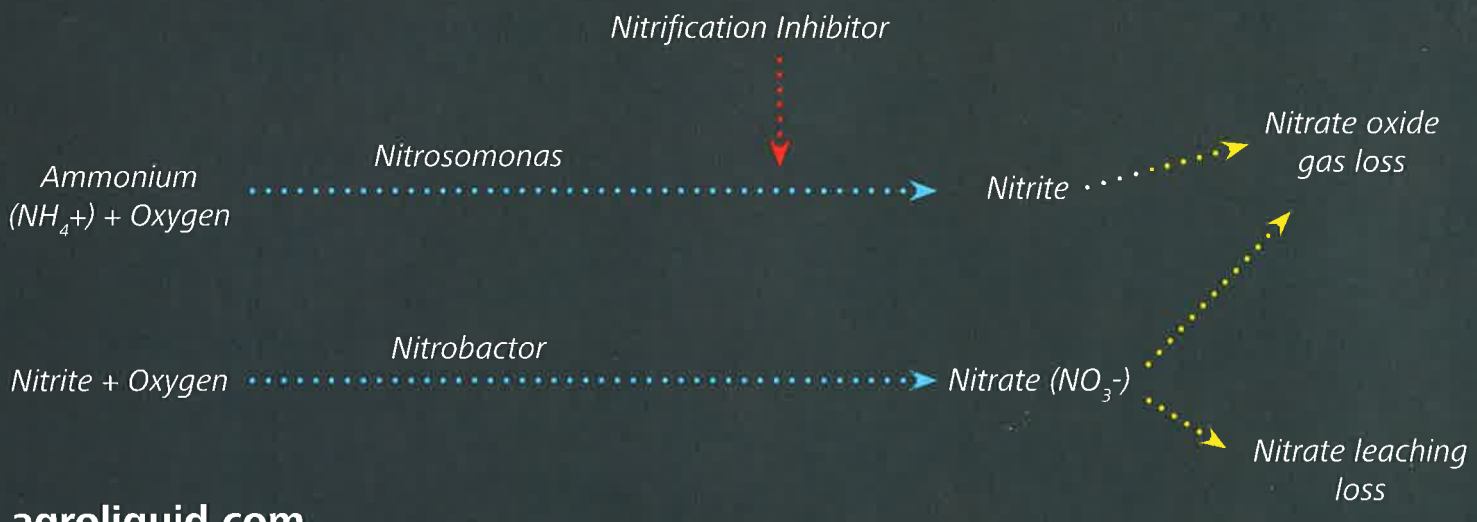
Should you eNhance or stabilize your nitrogen?

eNhance™ or Stabilize Nitrogen

Nitrogen fertilizer is subject to losses due to volatilization, denitrification, and leaching. The severity of loss is often dependent on soil moisture, temperature, and the placement of nitrogen in the soil. Most liquid fertilizers contain three forms of nitrogen – urea ($(NH_2)_2CO$), ammonium (NH_4^+) and nitrate (NO_3^-). Most plants can utilize the ammonium and nitrate forms of nitrogen, although the biological processes in the soil work to convert nitrogen to the nitrate form. Nitrate is the most susceptible to loss through leaching.



Most nitrogen "stabilizers" on the market today inhibit the biological processes in the soil that convert nitrogen into the nitrate form. Urease inhibitors, such as Agrotain® inhibit the enzyme urease that is produced by many soil bacteria, preventing the formation of ammonia (NH_3). Nitrification inhibitors such as N-Serve®, eNtrench®, Agrotain®Plus and Instinct® inhibit the activity of the soil bacteria *Nitrosomonas*, preventing the conversion of NH_4^+ to NO_3^-.



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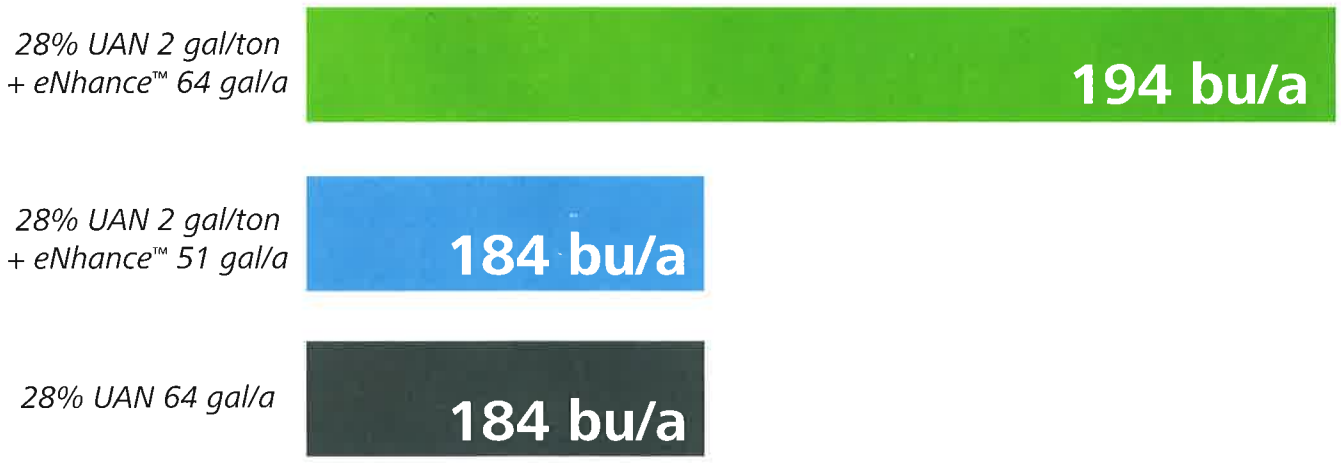
eNhance or Stabilize Nitrogen

In contrast, eNhance™ is a nutritional supplement that amends the urea and ammonium portions of UAN solutions to reduce the amount of ammonium converted to nitrate. That reduces volatility and denitrification, making nitrogen available to the plant as it is needed. eNhance™ also works within the plant to aid in nutrient transport, making other nutrients that enter the plant more efficient. Unlike traditional nitrogen stabilizers that inhibit biological activity in the soil, eNhance™ works within the plant, fortifying the crop's physiology to more efficiently utilize applied nitrogen.

Nitrogen stabilizers are used to prevent nitrogen loss so their use can be considered an insurance policy. If soil and environmental conditions are not conducive to nitrogen loss there would be no benefit to the addition of those stabilizers. However, eNhance™ improves the utilization of nitrogen in the plant and is not dependent on soil and environmental conditions. Adding eNhance™ to UAN solution allows the user to reduce the rate of fertilizer and maintain yields, or use the full rate of fertilizer and have the potential for higher yields than achieved by UAN without eNhance™.

North Central Research Station

Corn Yield bu/a



eNhance™ is not a traditional nitrogen stabilizer, but as the name implies, it enhances UAN fertilizer performance.

Use rates for eNhance™ in UAN fertilizer solutions:
2 gallons of eNhance™ per ton of 28-0-0 UAN
2.25 gallons of eNhance™ per ton of 32-0-0 UAN

eNhance™

eNhance™ is a nutritional supplement that combines proprietary chemistry with the proper balance of micronutrients and enzymes to produce greater nitrogen utilization. Using eNhance™ as part of a nitrogen-management program may allow conventional nitrogen solutions to be applied at reduced rates while still maintaining optimal yield potential. By working within the plant, eNhance™ nutritionally fortifies the crop to use nitrogen more efficiently. In addition to reducing applied nitrogen rate, eNhance™ is an excellent source of crop-available sulfate.

DIRECTIONS FOR USE

eNhance™ offers several distinct usage opportunities:

- combined with nitrogen solutions to provide increased nitrogen usability.
- combined with a liquid fertilizer program as a sulfur source.
- in-furrow as a sulfur source.

eNhance™ is primarily a nitrogen supplement to improve the efficiency of liquid UAN fertilizers. Add two gallons per ton of 28% UAN, or 2.25 gallons per ton of 30% or 32% UAN solution.

Technical Data

Weight Per Gallon @ 68° F	10.31 lbs/ gal
Specific Gravity	1.235
pH @ 68° F	6.81
Freezing Point	5° F

Composition
Guaranteed Analysis:

Nitrogen (N)	7.00%
7.00% Ammoniacal Nitrogen	
Sulfur (S)	8.70%
Manganese (Mn)	0.07%
0.07% Water Soluble Manganese	
Zinc (Zn)	0.07%
0.07% Water Soluble Zinc	

Derived from: Ammonium Sulfate, Manganese Sulfate, Zinc Sulfate

For proper agronomic application rates suitable for your geographical area or the maximum allowable non-nutrient application rates per acre, consult a trained soil specialist at AgroLiquid.

www.agroliquid.com/product-information

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