



## SUPERCHARGE YOUR UAN™

Proximus® helps you get the most from your liquid N investment. Unlike nitrogen stabilizers, Proximus works with nature, boosting nutrient use efficiency and providing a more consistent yield response.



### WORKS BY A NATURAL PROCESS

Approved for all crops in the US and Canada. It's safe and increases microbial populations in the soil.



### INCREASES NITROGEN USE EFFICIENCY

Multiple trials confirmed improved nitrogen utilization when Proximus was added to UAN. 14 to 28 lbs. N/Ac more in the corn plant when applying the same N rate.<sup>1</sup>



### DELIVERS CONSISTENTLY HIGHER YIELDS<sup>1</sup>

On average, 6-8% higher yields were found with the use of Proximus in UAN. Increased nitrogen use efficiency enables greater N uptake and yield.



### DECREASES LEACHING UP TO 69%<sup>2</sup>

Maintains nitrogen in the root zone, while naturally enhancing plant growth and development.

## MAKE YOUR LIQUID NITROGEN WORK HARDER

Protect your nitrogen and increase yields, without harming your soil microbes. When growers apply nitrogen, the nutrient is susceptible to losses through leaching. Weather and irrigation can exacerbate the amount lost. But the common fix – reapplying lost nitrogen or adding a nitrogen stabilizer – is costly, creates more work for farmers, and doesn't prevent future nitrogen leaching when the crop needs it most.

Proximus is a naturally sustainable solution that ensures nitrogen applications remain available to the crop. When applied with liquid N fertilizer, Proximus reduces nitrate leaching by increasing the natural microbial populations in the soil near the plant roots. These beneficial microbes prevent the nitrogen from leaching away while synchronizing nutrient delivery to the plant when it needs it most. The result is healthier soil, plants with stronger root mass, stronger stalks, and greater grain fill.

The pioneering technology used to create Proximus doesn't just make it more consistent and reliable than other products, it's also the only naturally sustainable nitrogen depletion solution on the market. So, while farmers are preventing nitrogen losses into the environment, they're also growing naturally stronger and higher yielding plants.



<sup>1</sup>Source: Actagro, 2016, 2017, 2018. Based on replicated and on-farm trials across 42 locations

<sup>2</sup>Source: Actagro, 2016. Based on 12 trials across the U.S.



# REDUCE LEACHING AND INCREASE EFFICIENCY



## LESS LEACHING

Used in conjunction with conventional fertilizers, Proximus increases natural microbial populations within the soil to greatly reduce the loss of valuable nutrients. It enables nutrients to stay in the crop root zone longer, reducing the opportunity for loss or movement into groundwater. During a season-long field study, use of Proximus reduced leaching by 69%.<sup>1</sup>



## HIGHER YIELD

In over 40 replicated and field trials in corn, crops treated with Proximus yielded up to 15% higher. Three years of yield data indicates an average 6% to 8% yield increase in corn.<sup>2</sup>

<sup>1</sup>Source: Actagro, 2016. Based on 12 trials across the U.S.

<sup>2</sup>Source: Actagro, 2016, 2017, 2018. Based on replicated and on-farm trials across 42 locations

## PROXIMUS WORKS THROUGH A UNIQUE MODE OF ACTION



Soil microbes respond by increasing biomass



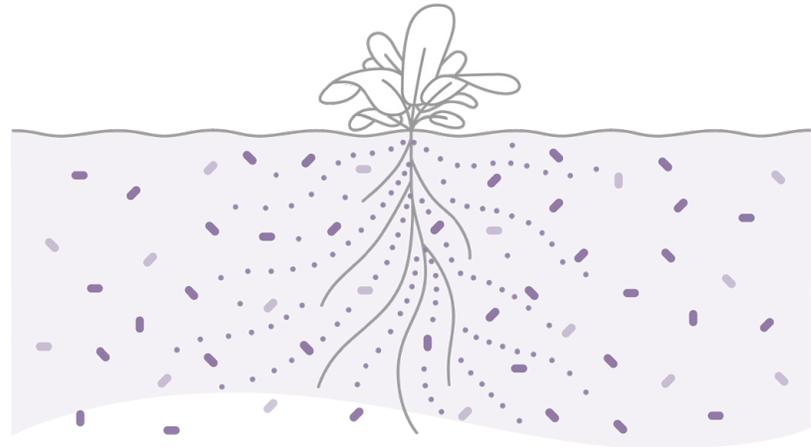
Creating a storage bank for Nitrogen in the root zone



Short-live microbes cycle a pool of nitrogen, releasing N as the crop grows



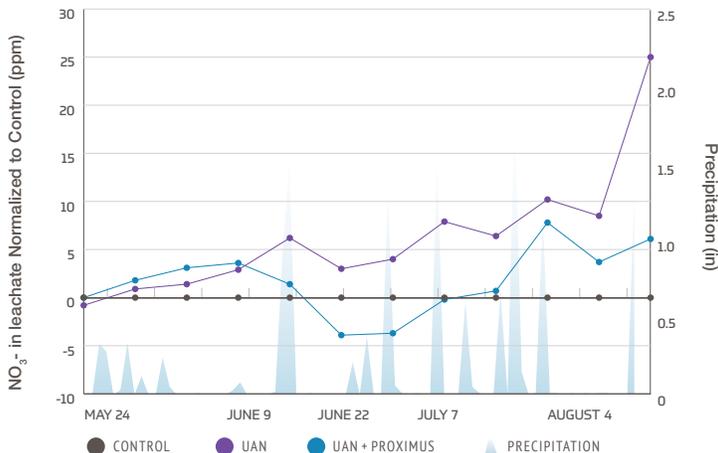
The crop uptakes the nitrogen on demand



## WORKS BY A NATURAL PROCESS

Proximus is the only naturally sustainable nitrogen depletion solution on the market today. Made from natural materials that enrich the soil, Proximus improves the environmental profile of the soil, while keeping excess nitrogen from leaching down into the water supply. When precipitation levels and temperatures rise, leaching increases, but soil containing Proximus consistently kept nitrogen levels down during warmer months and periods of more rainfall. Proximus does all this without killing or suppressing natural soil processes.

Effect of Proximus on Fallow Ground, Farmer City, IL



Season long effect of Proximus on nitrate leaching. 100 lbs. UAN-N /acre with or without Proximus was surface-applied to the soil. Control treatment is shown at zero. Across the season, the Proximus treatment had 69% less nitrate in leachate compared to the UAN-only treatment (p = 0.01), and the concentration of nitrate in leachate was not significantly different from the control, which received no UAN. Repeated measures ANOVA was employed.



Proximus is the first product backed by the Nutri-Guard Technology Platform, a patent-pending formulation designed for nutrient management. It helps prevent nitrogen, phosphorus, and other nutrient losses. This unique technology reflects Actagro's approach to working with natural soil processes to reduce costly losses and improve crop production.

The Nutri-Guard Technology Platform helps growers improve their environmental stewardship while boosting the quality and yield of their crops. Choose Proximus with Nutri-Guard Technology for a natural solution to nitrogen management.

FOR MORE INFORMATION VISIT

[SuperchargeYourUAN.com](http://SuperchargeYourUAN.com)

