



# Unique Urease and Nitrification Inhibitor that's kind to the Environment...

#### WHAT IS LIQUI-SAFE?

Liqui-Safe is a unique nitrification and urease inhibitor for liquid fertilisers. Liqui-Safe is a highly water-soluble organic compound primarily created from fermentation of maize.

### HOW LIQUI-SAFE WORKS

The technology reduces the 3 sources of N loss by using its high cation exchange capacity designed to sequester elements involved in the nitrogen cycle.

#### ENVIRONMENTAL BENEFITS OF LIQUI-SAFE

- + Liqui-Safe improves N use efficiency from UAN by 15%.
- Liqui-Safe keeps the fertiliser where it is needed for longer, increasing nitrogen efficiency, yield and crop quality.
- Liqui-Safe has demonstrated a beneficial effect on soil biome.
- Studies have demonstrated significant reductions in Nitrous Oxide and Ammonia losses from field applications of Liqui-Safe.

Р	roduct	Ammonia loss (Volatilisation)	De Nitrification Losses	Reduction in Leaching
Lic	qui-Safe	Up to 86%	Up to 61%	Up to 43%



#### **REDUCED IMPACT ON THE ENVIRONMENT – THE RESULTS**



NutriSphere-N presents no long-term effect on the rate of mortality, reproduction or biomass inhibition of earthworms.



NutriSphere-N treated urea by Athens University reported a 74% increase in Mycorrhizal colonisation compared with untreated urea.



Acute and chronic studies performed with **NutriSphere-N** at up to **10 times** the agronomic dose determined there was no long-term effect on the mobility of Daphnia.



Acute study performed with **NutriSphere-N** at up to **10 times** the agronomic dose determined there was no effect on fish mortality.



Trialled in EU, TR and UK with **NutriSphere-NL** over a 3 year period covering a total of 6 different crops the use of the **technology** produced an average **3.7% yield increase**.







#### LIQUI-SAFE BEST USE POINTERS



#### Trial highlighting how Liqui-Safe improves NUE in tailored N situations.

## Liqui-Safe was found to:

- In all scenarios, produce an increase in yield and protein.
- Average yield increase: 0.4 tonnes per ha.
- Average protein increase: 0.1%.







