



MENAFERT

Product leaflet

Advanced N-GUARD AQUA

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To protect urea against volatilization until incorporation of the urea by rainfall or other means has occurred.

MENAFERT N-GUARD AQUA is one of the innovative additives that MENAFERT International presents in its Precision Fertilizer program for arable crops and open field vegetables. By adding MENAFERT N-GUARD AQUA to urea fertilizers, nitrogen efficiency will increase significantly due to decreased volatilization. Depending on the soil and climate conditions, Nitrogen loss due to untreated urea can go up to 47% of the total amount of Nitrogen applied.

The secret behind MENAFERT N-GUARD AQUA is the efficient NBPT Urease inhibitor (n-butyl)-thiophosphoric triamide) that is available in a highly concentrated form. The MENAFERT N-GUARD AQUA slows down the conversion of urea to ammonia by temporarily blocking the activity of the urease enzymes in the soil, especially in alkaline soils and under dry conditions. MENAFERT N-GUARD AQUA results in increased nitrogen efficiency and prevents the negative impact of ammonia and nitrite toxicity on germinated seeds and seedlings.

The product is more concentrated than all the alternative NBPT-products on the market, as well as saver to use, more eco-friendly and free of any distinct smell. The liquid formulation can be mixed with liquid urea formulations like UAN. When using urea based NPK-granules, granulated or prilled urea, MENAFERT N-GUARD AQUA can be blended with the granule or prill.

The substance is REACH registered and in compliance with the EU-Fertilizer law 2003-2003. This means that urea fertilizers treated with MENAFERT N-GUARD AQUA can be declared as EU-Fertilizers with Urease inhibitor.

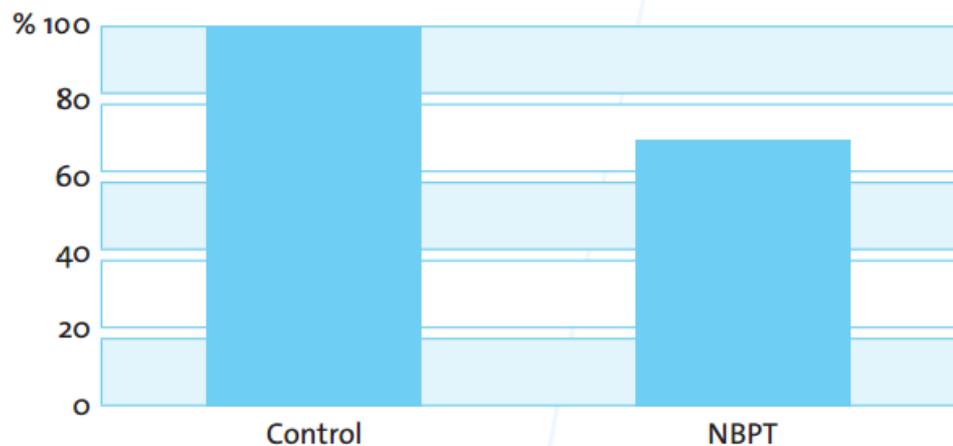
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Product characteristics

- Reduces Nitrogen losses due to volatilization with more than 30%
- Lower dose rate than any other NBPT formulation due to the innovative, highly concentrated formulation
- Save and convenient to mix with liquid urea formulations, without any penetrating smell
- Easy to blend with granulated or prilled urea or urea based NPK's
- Part of the Menafert Precision Precision Fertilizer program
- REACH registered and in compliance with the EU fertilizer law

Ammonia loss due to volatilization is reduced with use of NBPT



Ammonia loss due to volatilization following surface application of urea and percentage reduction in loss due to addition of NBPT. Average of 6 measurements of NH_3 loss from Urea, where control is set at 100% and NBPT relative to the control.

Dosing instructions

	Dosage	Remarks
Liquid Urea formulations, like UAN	1.4L per 1.000L of UAN	- To be added to the tank by the farmer - Tank mix is stable for up to 2 to 3 weeks
Prilled or granulated Urea	2.8L per 1.000kg of urea	- To be blended with prilled or granulated urea - Shelf life of packed product up to 3 months - Shelf life of bulk product up to 3 to 4 weeks
Granulated NPK's with Urea	0.6L per 1.000kg of NPK's for each 100kg of NH_2 inside the formulation	- To be blended with prilled or granulated urea - Shelf life of packed product up to 3 months - Shelf life of bulk product up to 3 to 4 weeks

The mentioned indicated dosages and application stages are subject to soil and climatic conditions, the influence of previous crops or other specific conditions. Exact dosages and stages of application can only be given after an objective diagnostic procedure by e.g. soil, substrate and / or plant analysis. In case of a mix tank, it is advisable to conduct a compatibility test on forehand.

