

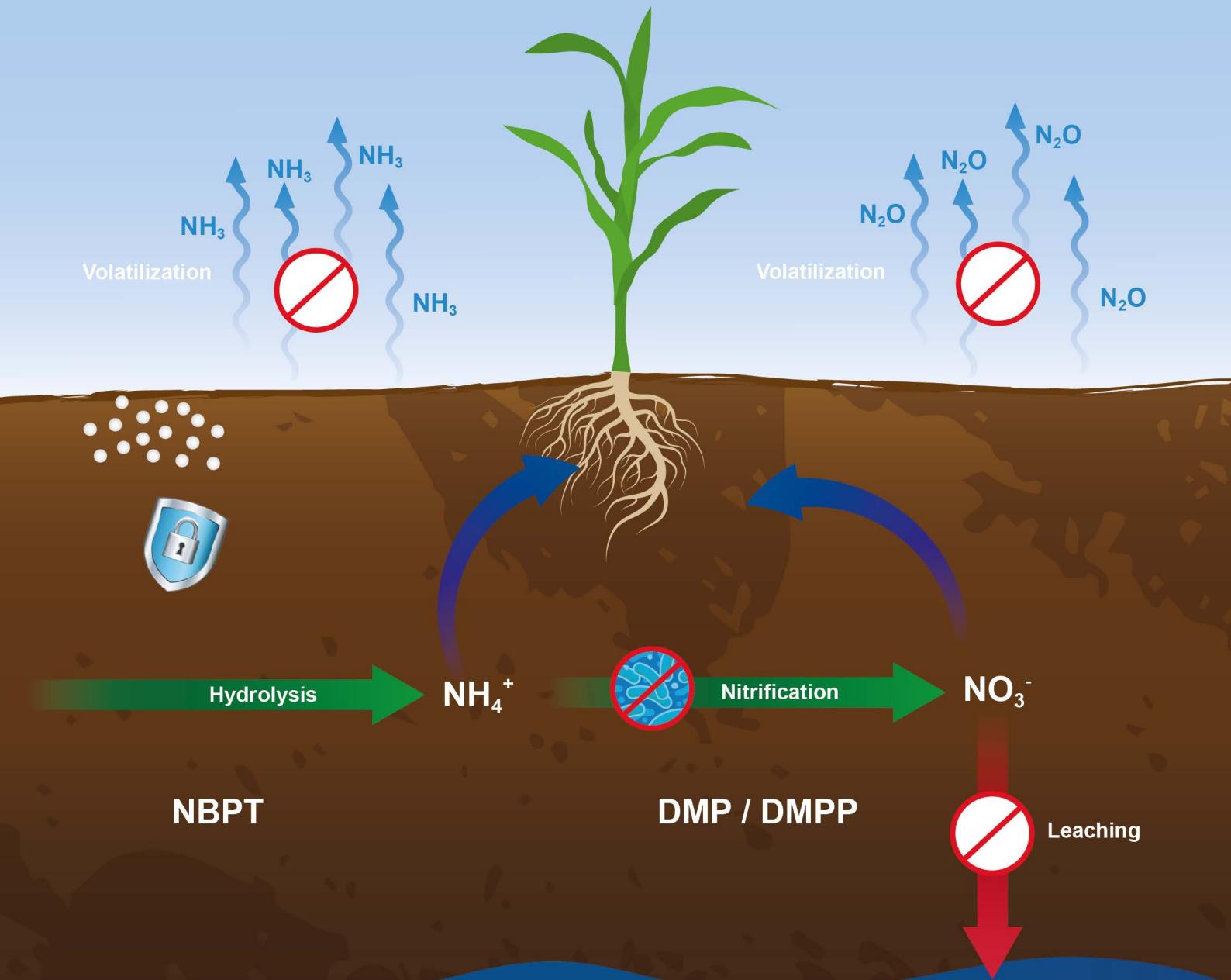
# Nitrogen Stabilizers & Fertilizer Enhancers



Carbon  
Footprint  
ISO 14067



- Urease Inhibitors
- Nitrification Inhibitors
- Phosphate Boosters



The CroxX Inhibitor solutions are advanced formulations designed to enhance nitrogen use efficiency in agricultural soils.

#### 1. Urease Inhibitor - NBPT:

NBPT blocks the activity of the urease enzyme. This enzyme breaks down urea into ammonia and  $\text{CO}_2$  leading to nitrogen losses by volatilization. By inhibiting urease, NBPT helps to retain more nitrogen in the soil, reducing ammonia gas emissions and improving nitrogen availability for plants.

#### 2. Nitrification Inhibitor - DMP(P):

DMP, the active ingredient of the popular and well established DMPP (3,4-Dimethylpyrazole phosphate), functions by suppressing the activity of *Nitrosomonas* bacteria for 4-10 weeks. These bacteria are responsible for converting ammonium ( $\text{NH}_4^+$ ) into nitrate ( $\text{NO}_3^-$ ) through the nitrification process. By slowing down this conversion, DMP(P) keeps nitrogen in the stable ammonium form, reducing the risk of nitrate leaching and nitrogen gas emissions as  $\text{N}_2\text{O}$ .

Together, these inhibitors protect nitrogen in the soil, enhance its availability for plants over an extended period of time while minimizing losses from leaching and gaseous emissions. This leads to more efficient use of applied fertilizers and improved crop yield potential.

# Uplus<sup>+</sup>

**NBPT solution for stabilising Urea and UAN**

## Certification

CE-certified fertilising product according to EU Regulation 2019/1009



## Technical data

Active ingredient: 25 % N-(n-Butyl)-thiophosphoric triamide (NBPT)

## Dosage for Urea

Min.: 1.66 kg/mt (1.48 l/mt)

## Dosage for UAN

0.6 kg/mt (0.5 l/mt) - 1.3 kg/mt (1.1 l/mt)



**NBPT solution for Urea stabilization**  
Simple application in any fertilizer mixing system



# N2 stabil

## The Dual Inhibitor

### NBPT & DMP solution for stabilising Urea and UAN

#### Certification

CE-certified fertilising product according to EU Regulation 2019/1009.



#### Technical data

Active ingredients: 25.0% N-(n-Butyl)-thiophosphoric triamide (NBPT);  
7.5% 3,4-dimethyl-1H-pyrazole (DMP)

#### Dosage for Urea

Min.: 1.66 kg/mt (1.44 l/mt)

#### Dosage for UAN

0.6 kg/mt (0.5 l/mt) - 1.3 kg/mt (1.1 l/mt)



**NBPT/ DMP solution for Urea stabilization**  
Simple application in any fertilizer mixing system



# Nplus<sup>+</sup>

## 3.4 DMPP solution for stabilising NH<sub>4</sub>-containing fertilisers

### Certification

CE-certified fertilising product according to  
EU Regulation 2019/1009



### Technical data

Active ingredient: 25% DMPP (3,4-Dimethyl-1H-pyrazolium dihydrogen phosphate)

### Dosage:

2.5 - 3.5 l/mt depending on the NH<sub>4</sub><sup>+</sup> and NH<sub>2</sub> content of the fertilizer



**DMPP solution for stabilising granular,  
soluble or liquid fertilisers**  
Simple application in any fertilizer mixing system

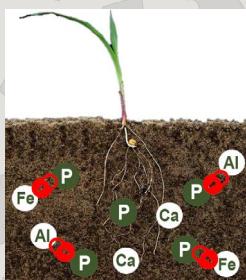


# P-Booster

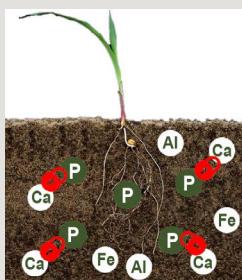
## Phosphate Enhancer for P-Fertilizer

### Mode of action

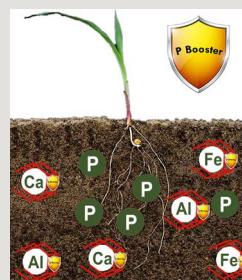
#### Acid soils



#### Alkaline soils



#### P-Booster



### Certification

CE-certified fertilising product according to EU Regulation 2019/1009



### Technical data

Active ingredient: 40% Organic Complex



### Dosage

Granular & Solubles: 3-4 l/mt  
Slurry: 4-5 l/ha  
Fertigation 6-8 l/1000 l

**P-Enhancer solution for granular, solubles or fertigation**  
Simple application in any fertilizer mixing system

# Phos-N protect

## Phosphate Enhancer and Nitrification Inhibitor



### Benefits

- ⊕ Better P-Uptake
- ⊕ More N for the plant
- ⊕ Less N losses

#### Technical data

Active ingredient: 27% Organic Complex  
5% 3,4-Dymethyl-1H-pyrazole (DMP)

#### Dosage

2.5 - 4.5 l/mt depending on the P<sub>2</sub>O<sub>5</sub> and NH<sub>4</sub> content of the fertilizer



**P-Booster Solution with Nitrification Inhibitor for NP, NPK, organic and organo-mineral fertilizers**  
Simple application in any fertilizer mixing system



CroxX is a German fertilizer company based in Münster, Westphalia. We produce and distribute innovative fertilizer solutions, fertilizer enhancers, biostimulants and technologies for sustainable agriculture.

We strive for excellence so that farmers all over the world can benefit from our expertise. A complete product range and our continuous technical and sales support are a unique promise of performance.

Our team has more than 20 years of experience in the development and worldwide marketing of Specialty Fertilizers, Nitrification and Urease Inhibitors as well as additives for enhanced nutrient efficacy.

Our portfolio includes:

- Granular NPKs
- Water Solubles
- Stabilized Fertilizers
- Micronutrients
- Biostimulants
- Urease and Nitrification Inhibitors
- P-Enhancers



*A company of the*

**WOCKLUM**  
GROUP

The information given in this brochure is not legally binding. They are for guidance only, even if, based on our current level of knowledge, they can be considered correct. Since the application is subject to various influences such as application method, mixing process, storage conditions the user is not released from his or her own duty of care and we recommend that you determine the suitability of the solution for the specific purpose through your own tests. This does not release the user from the obligation to thoroughly test the product upon delivery or from any other obligations. We accept liability for the quality of the products only up to the time of delivery.

CroxX GmbH & Co. KG  
Hafenweg 46 - 48  
48155 Münster / Germany

Tel.: +49 251 379 733 50  
[service@croxx-fertilizer.de](mailto:service@croxx-fertilizer.de)  
[www.croxx-fertilizer.de](http://www.croxx-fertilizer.de)



