



# LIQUIMAXX N-MAXX 40

## 40% Stabilised Nitrogen

**LIQUIMAXX N-MAXX 40** is a high concentrated stabilised liquid nitrogen, which delivers nitrogen over an extended period. **LIQUIMAXX N-MAXX 40** reduces the losses associated with nitrogen such as volatilisation, leaching and denitrification.

The efficient use of nitrogen is quickly becoming the most critical issue in all types of crops grown. This certainly is the case in Turfgrass where the use of Urea and other Ammonium based fertilisers is used extensively. From the time these types of fertilisers are added to the ground a variety of chemical and environmental changes occur. These changes have a detrimental effect on nitrogen efficiency and the environment.

Urea once applied will undergo a hydrolysis (Breakdown) with the involvement of moisture and the urease enzyme. Urea is then broken down to ammonia and carbon dioxide. Both these gases will be released to the atmosphere in a process known as VOLATILISATION. This will account for up to 30% of the total nitrogen lost until the fertiliser reaches the soil profile. Up to 20 mm of rainfall or irrigation is required to completely place all Urea into profile. LIQUIMAXX N-MAXX 40 contains an additive (NBPT), which suppresses the enzyme activity of urease, and allows up to 2 weeks for the fertiliser to be incorporated in the soil.

Once the urea and other ammonium based nitrogen sources reach the soil profile an immediate oxidation process occurs called NITRIFICATION. With the aid of bacteria the process of converting ammonium to nitrite and then to nitrate production is unstoppable. Once the nitrogen has a negative charge it can be easily leached, as it cannot hold onto soil colloid, particularly in turf management

Another major loss of Nitrogen is when the soil profile becomes saturated or waterlogged. The Anaerobic bacteria will strip the oxygen away from nitrates thus converting the nitrogen back to nitrogen gas (N<sub>2</sub>) or nitrous oxide (N<sub>2</sub>O). The gases are returned to the atmosphere. This process is called Denitrification. In both the cases of leaching and denitrification the additive in LIQUIMAXX N-MAXX 40 (DCD) can prevent these losses for up to 16 weeks by keeping the nitrogen in an ammonium form.

### ANALYSIS:

ELEMENT	Present As	W/V%
NITROGEN (N)	Stabilised Nitrogen	40.0

### DIRECTIONS FOR USE:

APPLICATION	Rate
TEES & GREENS	0.2 - 0.5 L / 100 m <sup>2</sup>
FAIRWAYS	20 - 50 L / Ha

### APPLICATION NOTES:

APPLICATION	Rate
TEES & GREENS	4 - 8 L water / 100 m <sup>2</sup>
FAIRWAYS	400 - 800 L water / Ha

Apply early morning or late afternoon.

### NOZZLE COLOUR:

OPTIMUM WATER RATE

400 (80 MESH)