

MP SPRING START

16-1-10

100 SGN Homogeneous Granule
Magnesium + Manganese

MP SPRING START incorporates UMAXX stabilised nitrogen and IBDU, both recognised as premium slow-release technologies designed to minimise nutrient volatilisation, leaching and thatch accumulation. These technologies enhance nutrient absorption by the turf while maximising colour intensity, reduce labour strain, and reduce weed and disease pressure. The inclusion of revolutionary dispersing granulation technology further reduces mower pick-up following light irrigation.

UNIQUE FEATURES

- With 65% of nitrogen as UMAXX, this formulation offers controlled nitrogen release for up to 3 months and helps prevent nitrogen loss
- 25% of nitrogen as IBDU is included to provide controlled release through hydrolysis, enhancing turf response for up to 16 weeks
- 1% magnesium is included to support chlorophyll production and photosynthesis
- The formulation contains 0.5% manganese, which supports enzyme activity, boosts plant health, and enhances leaf colour
- With 2% humic acid, it enhances nutrient uptake and improves soil nutrient availability
- The addition of 1% carbon stimulates beneficial soil microbes, supporting a healthier root zone

TECHNOLOGY

Isodure™, incorporated in MP SPRING START, is a high-quality slow-release nitrogen source. Every molecule of Isodure™ contains two molecules of urea and one of the carrier molecules isobutyraldehyde. The resulting isobutylidenediurea (IBDU) molecule breaks down through dissolution and hydrolysis, nearly independent of microbial activity and soil temperature for release. The mineralisation rate is determined by the rate of dissolution and hydrolysis, with larger prills taking more time to release. This process ensures minimal release during periods of drought or temperatures lower than 8°C.

Isodure™ provides 89% water-insoluble nitrogen (WIN), surpassing other slow-release nitrogen sources. With a salt index of 5, Isodure™ is safer to apply than most non-coated nitrogen sources.

UMAXX® stabilised nitrogen fertiliser is a soluble granular with a dual-inhibitor technology that provides protection against all three forms of nitrogen (N) loss — leaching, denitrification, and volatilisation. It is a urea-based product with a 46-0-0 analysis containing both urease inhibitor (NBPT) and a nitrification inhibitor (DCD) to extend the availability of nitrogen in the soil. A completely soluble granular, UMAXX fertiliser is equally effective whether spread dry or dissolved in a spray mix.

GUARANTEED ANALYSIS

Nitrogen (N)	16%
(Water Insoluble Nitrogen 3.6%)	
(Stabilised Urea Nitrogen 11.6%)	
(Ammonia Nitrogen 0.4%)	
(Other water soluble Nitrogen 0.4%)	
Phosphorus (P)	1%
Potassium (K)	10%
Calcium (Ca)	2%
Magnesium (Mg)	1%
Sulphur (S)	4%
Manganese (Mn)	0.5%
Humic Acid	2%
Carbon (C)	1%

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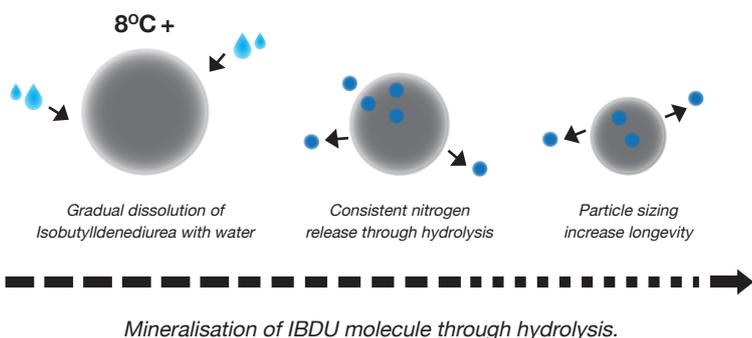
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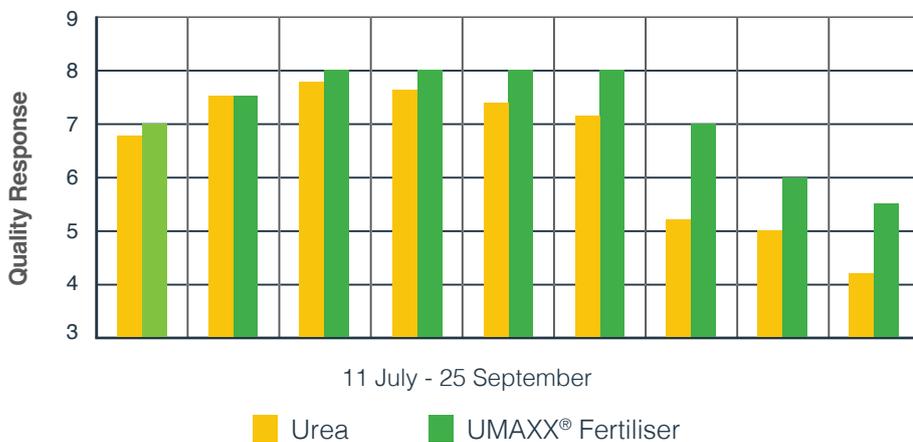


MINERALISATION MECHANISM

The mineralisation rate of Isodure™ is determined by the rate of dis-solution and hydrolysis. Isodure™ has an extremely low solubility and is broken down with water through the process of hydrolysis over a period of 2 - 4 months. Particle sizing also has an influence on the nitrogen release rates. Larger prills take more time to release. This process also ensures minimal release during periods of drought or temperatures lower than 8°C.



COMPARISON OF UMAXX® FERTILISER TO UREA ON KUNTUCKY BLUEGRASS - OHIO



Source: Street et al, the Ohio State University. Application 1lb per 1,000 sq. ft.

The underlying data was provided by the Ohio State University under a Research Trial Financial Support Agreement. The Ohio State University does not endorse or recommend any product or service.

Research performed at The Ohio State University shows how UMAXX fertiliser compares to standard urea. The initial response of UMAXX fertiliser was similar to urea with extended turfgrass response.



APPLICATION RATES

125 to 250 kg/ha
or 1.25 to 2.5 kg/100m²

Actual Nitrogen (N) applied per hectare

125kg/ha = 20kg actual N/ha
250kg/ha = 40kg actual N/ha

SPREADER SETTINGS

	1.25 kg/ 100 m ²	2.5 kg/ 100 m ²
Accupro	G 1/2	I 1/2
Lesco (number)	8	10
Lesco (letter)	C	D
Earthway Rotary	9 1/2	11 1/2
CBRIVSS	F	H

The spreader settings are close approximations. Trial calibration is recommended before widespread use.

USE PATTERNS

Use MP SPRING START through the growing season for efficient nutrient delivery to closely match growth requirements. Immediate irrigation is not required after application to a dry turf surface but irrigate by the same day evening. Apply MP SPRING START at a suggested rate of 125 to 250kg / ha

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