



FOR MORE INFORMATION ON FoliMAX, CONTACT YOUR LOCAL TERRITORY MANAGER OR CALL 1800 631 008.

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*Liquid nutrition at its best*

# FoliMAX Turbo 10-0-20

## Liquid nutrition at its best

### FoliMAX Turbo

FoliMAX Turbo is a unique liquid high potassium turf fertiliser containing 20% potassium and 10% nitrogen for improved plant vigour. The potassium component of the product is in the form of a chloride and sulphate free citrate/carbonate complex which provides rapid availability of potassium to the plant and enhances plant hardiness and stress resistance. 60% of the nitrogen component is in the form of a new generation slow release SRN-IQ Technology which maximises foliar uptake and nutrient utilisation processes within the plant. These features provide you with a reliable, robust and effective high potassium maintenance fertiliser that will become an integral part of your turf liquid nutrition program.

### The FoliMAX Turbo guaranteed minimum analysis:

**Nitrogen (N) as SRN-IQ Technology:** 6%

**Nitrogen (N) as Urea:** 4%

**Total Nitrogen (N):** 10%

**Total Potassium (K) as Citrate/Carbonate Complex:** 20%

### The FoliMAX Turbo product characteristics:

**pH:** >7

**Specific Gravity:** 1.2

**Appearance:** Translucent liquid with ammonia odour

**Solubility:** Completely soluble

### Key benefits of FoliMAX Turbo

- Turf specific fertiliser, researched and developed purely for turf purposes.
- Ideal N:K ratio for year-round maintenance applications for strong, vigorous turf.
- Chloride and sulphate free form of potassium for improved plant safety.
- Contains SRN-IQ Technology for improved plant utilisation and prolonged plant growth.
- The SRN-IQ Technology provides rapid delivery of nitrogen into the plant.
- Excellent tank mix versatility; highly compatible with many other fertilisers and chemicals.
- Very low risk of phytotoxicity due to its low salt index, even on immature turf.
- Excellent flexibility in application rates, allowing you to better optimise your nutrition program.
- Non-corrosive formulation that will not damage spray equipment.

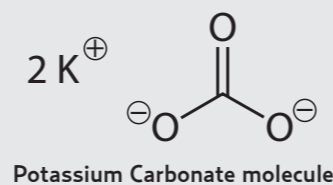
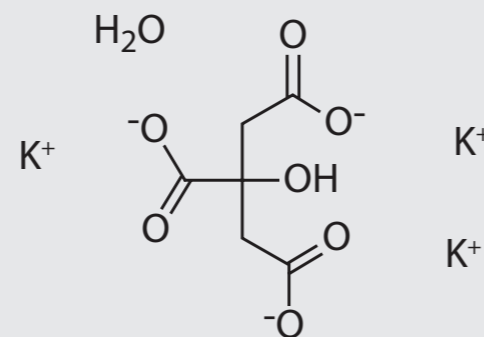
### Nitrogen to potassium ratio in turfgrass nutrition

FoliMAX Turbo possesses a nitrogen to potassium (N:K) ratio of 1:2, resulting in a liquid fertiliser that is ideally suited to maintenance applications throughout the year. By delivering nitrogen and potassium in the ratio of 1:2, turf managers are able to promote turf strength and resilience whilst avoiding undesirable growth flushes and potential disease pressure associated with excessive nitrogen applications. Research has shown that attempts to stimulate early growth following the break of dormancy with high applications of nitrogen can damage turf. Early spring green up is best achieved through applications of 1:2 ratio fertilisers through autumn (Hendreck & Black 2004).

In addition, many turf management practices result in reduced potassium reserves within the soil. Sand-based profiles have repeatedly been found to possess exchangeable potassium levels below the desired level required for healthy turf. Frequent irrigation and heavy rain results in potassium losses via leachate, further exacerbated by the high percolation rates in USGA style profiles. Losses through mower clippings can also be extensive with annual clipping loss of potassium through collected mower clippings often greater than 1.3kg/100m<sup>2</sup> in typical turfgrass situations.

### The Potassium Citrate/Carbonate Complex explained

The potassium in FoliMAX Turbo is present as a citrate/carbonate complex. Having dual forms of potassium optimises availability of the nutrient, both via the leaf and the soil. The potassium citrate component provides a citrate molecule which is found in all plants, and this form of potassium is immediately recognised and assimilated by the plant maximising leaf uptake. The potassium carbonate form is ideal for plant uptake in the soil environment and also has the additional benefits of enhancing disease resistance properties within the turfgrass plant.



### Low salt index of potassium sources

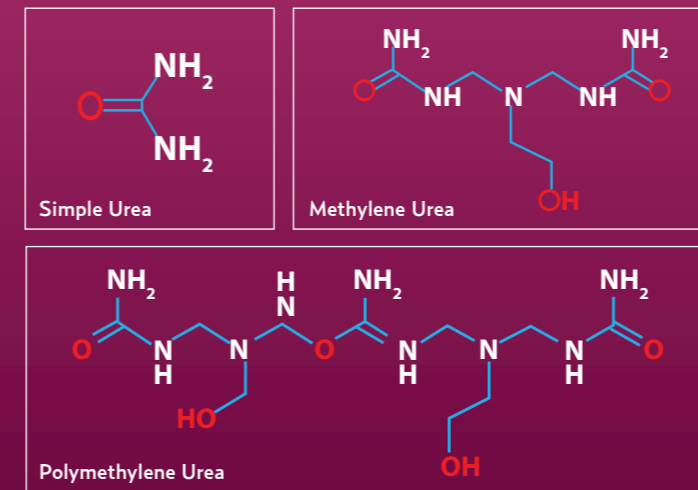
Higher salt index fertilisers have a greater potential to cause foliar burn. The lower the salt index the lower the potential for phytotoxicity. Both potassium carbonate and potassium citrate have very low salt index and as a result, FoliMAX Turbo has a very low potential for foliar burn after application.

Product	Salt Index
Potassium Chloride	120.1
Potassium Nitrate	69.5
Potassium Thiosulphate	68.0
Potassium Sulphate	42.6
Potassium Carbonate	<20
Potassium Citrate	<10

### SRN-IQ Nitrogen explained

60% of the nitrogen contained in FoliMAX Turbo is in the unique form of SRN-IQ Nitrogen. The SRN-IQ Nitrogen Technology is a true liquid, clear urea-formaldehyde solution which has an oily, resinous quality. The SRN-IQ Nitrogen Technology has a linear molecular structure, which allows it to be more compact than other slow release nitrogen technologies, and therefore provides it with significantly improved foliar uptake capabilities.

SRN-IQ Nitrogen comprises of methylene urea, methylene diurea and polymethylene urea. These molecules all differ in size and take different periods of time to be broken down into usable units of nitrogen within the soil. The SRN-IQ formulation has been balanced with specific ratios of the different sized molecules, to ensure a consistent growth pattern over a 12 – 18 week period. The below images clearly demonstrate the differing polymer lengths that contribute to the specific release pattern of SRN-IQ Nitrogen following application.



### OTHER KEY PRODUCTS IN THE FoliMAX RANGE

#### FoliMAX N-Hancer-N 35-0-0

A clear liquid fertiliser solution containing 70% controlled release nitrogen as SRN-IQ Technology, specifically developed for use in turf and landscape situations.



#### FoliMAX NRG-NK 19-0-13+Fe

A nitrogen and potassium fertiliser solution containing nitrogen in the unique form of SRN-IQ, and the chloride free, dual potassium source. The blend also contains Iron for improved green-up and turf vigour.



### FLEXIBILITY IN APPLICATION RATES WITH FoliMAX Turbo

Apply as a spray application during the growing season on all turf grasses and most landscape plants. Dilute with water, using the desired potassium (K) rate per 100m<sup>2</sup> according to the application rate chart. Apply in sufficient water to achieve adequate plant coverage. Use a water volume of 5 – 15L per 100m<sup>2</sup> (500 – 1500L/Ha), depending on the application rate. Avoid mowing for 24 hours following an application.

K kg/Ha	mL/100m <sup>2</sup>	L/Ha
8	400	40
12	600	60
16	800	80
20	1000	100
25	1250	125

**Rapid plant uptake:** The SRN-IQ Technology is readily received across the cell membrane, where it is translocated for storage, metabolism, and use. As a result, the majority of the SRN-IQ Nitrogen can be found inside the plant within 6 – 8 hours of application, and essentially all of it is absorbed in 24 – 48 hours.

**Slow release nitrogen:** Numerous past research trials have indicated that 0.5kg (500g) of nitrogen from straight urea will feed 100m<sup>2</sup> of turf for 3 – 4 weeks (depending upon turf type and environmental conditions). The same amount of nitrogen from SRN-IQ will keep the photosynthesis mechanism fuelled for 6 – 8 weeks, thus establishing that the SRN-IQ Nitrogen works on a slow release or sustained availability system.

**Enhanced soil activity:** As SRN-IQ Nitrogen is dispersed in the soil, a "wicking" action draws the free water away from the resinous nitrogen molecules, resulting in the formation of a more viscous solution. This loss of water causes the SRN-IQ Nitrogen to gel and polymerise. The simplest water soluble methylene ureas combine to form longer chain molecules which are substantially less soluble. As this occurs, warm temperatures, moisture availability, and especially microbial action all become necessary to convert the less soluble nitrogen forms into usable nutrition units in the root zone for the plant to uptake.