

# GMX SOCIAL MAG

12% Calcium, 3% Magnesium, 12% Nitrogen



MSDS QR CODE

1.44

PRODUCT S.G.

6.0

PRODUCT pH

1000L

(30 or 50 Mesh)

NOZZLE COLOUR FOR OPTIMUM WATER RATE

GMX SOCIAL MAG is a highly concentrated calcium, nitrogen and magnesium fertiliser for the treatment and removal of sodium accumulated in soil profile. GMX SOCIAL Mag is completely soluble for quick and effective management of quality turfgrass.

The accumulation of sodium in the soil profile has a pronounced effect on the management of quality turfgrass. Sodium causes compacting, poor soil structure, and lack of growth and poor water filtration. The increased use of effluent on golf courses now means sodium will be delivered to soil profile on a continuous basis. As a result the management of sodium and its negative effects will need to be effective and ongoing.

### THE DISPLACEMENT OF SODIUM

The effective use of cation exchange is the best way in managing Sodium accumulation. As we know the principal of CEC is the exchanging of one cation for another that has a higher preference or charge. As sodium is a single charged cation it can be removed by a double or divalent cation. The most effective is calcium. Sodium is attracted to the negatively charged sites of soil colloids where the accumulation occurs. As these levels rise, uptake of other cations such as magnesium and calcium will be reduced. Sodium at high concentrations itself is toxic to turfgrass. High concentrations of soluble calcium must flood the exchange sites which forces the sodium away and then is removed via irrigation or rain fall.

### CHOOSING THE RIGHT CALCIUM.

The choice of the correct calcium is the most important aspect of making sodium removal effective. The main criteria is solubility. For calcium to exchange with sodium it must be in solution. GMX SOCIAL Mag is 100% soluble for quicker results. As effluent water contains sodium, consistent use of GMX SOCIAL via fertigation or surface applied can offer effective control. GMX SOCIAL Mag is 100% soluble with added nitrogen to effectively remove sodium and promote growth. At the same time, GMX SOCIAL Mag is cost effective, non hazardous and powerful tool for any turfgrass manager to combat the problem of salinity.

### ANALYSIS:

ELEMENT		Present As	W/V%
NITROGEN	(N)	Nitrate	12.0
CALCIUM	(Ca)	Nitrate	12.0
MAGNESIUM	(Mg)	Nitrate	3.0

### DIRECTIONS FOR USE:

APPLICATION	Rate	Notes
INITIAL APPLICATION	1 - 2 L / 100 m <sup>2</sup>	Irrigate well after application
MAINTENANCE	0.4 - 0.6 L / 100 m <sup>2</sup>	Apply every 2-4 weeks. Irrigate well after application.

### APPLICATION NOTES:

APPLICATION	Rate	Notes
TURF	2 - 4 L water / 100 m <sup>2</sup>	Irrigate well after application

### IMPORTANT:

ALWAYS follow by immediate irrigation to ensure good soil penetration and eliminate any chance of leaf burn. It is preferable to spray in the cool of day. DO NOT apply to Bentgrass if temperature exceeds 26°C. If soil profile is dry or the turf is under heat or drought stress, the turf should be irrigated prior to, and then after the application.



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