

MANGANAZE

For the treatment of **Manganese deficiency** in turf



WHY MANGANAZE

- Contains the element Manganese (Mn) to improve photosynthesis capability
- Manganese increases lignification of cell walls as a defence mechanism against disease
- Iron Sulphate helps lower the pH and provides Iron nutrition
- Contains plant sugars providing an energy source to Fluorescent Pseudomonads (beneficial antagonistic bacteria)



Typical early season Take-all Patch Symptoms

How Manganaze works

Manganese deficiency is common in poorly drained soils and where organic levels are high.

Manganaze has been specifically formulated as a nutrient supplement for newly established bent turf greens and situations where pH levels will restrict uptake of the element Manganese.

To assist the turf plant's ability against Take-all Patch (*Gaeumannomyces graminis*) which effects bent grasses, all areas should be sprayed as Take-all Patch can be active in the ground even when there are no visible patches of the disease.



Product Detail

Contains: Manganese (9.9% $MnSO_4$, Iron (Fe) 2.0%)

Pack size: 5 litres


Pack coverage: 2,500 sq.m

RT order code: 0113131/05

APPLICATION RATES			
Area of use	Manganaze	Water Volume	Area
Golf greens, bowling greens	20 litres	700 litres	1 ha

RECOMMENDED PERIOD OF USE											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Use plant protection products safely. Always read the label and product information before use



The element Manganese is an important micronutrient required by all plants and is involved in various metabolic functions. It is the catalyst for Oxygen evolution in photosynthesis and is an activator co-factor in several major enzymes involved in metabolic pathways, including the TCA cycle, synthesis of RNA in chloroplasts and in lipid synthesis. Manganese also plays a role in lignin synthesis which can help to suppress both leaf and root diseases.