

LIQUID MANGANESE SEED TREATMENT FOR EFFICIENT EARLY PROTECTION

Manganese is the most commonly deficient trace element in UK soils. It plays a key role in photosynthesis and is vital for many plant enzyme systems. Deficiencies impact on plant health, root and shoot growth, quality and yield. To protect cereals from early deficiency problems **Man-uP** provides a highly plant available source of Manganese to the germinating seed.

Man-uP combines high levels of Manganese with nitrate Nitrogen and is designed to treat cereals and oilseed rape to ensure availability of these essential nutrients during the critical early stages of growth.

Treating the seed with Manganese is the most efficient way to protect the crop from early deficiencies, ensuring a guaranteed supply when there is too little leaf area for effective foliar application and protecting against possible delays in application due to adverse spraying conditions.

The proprietary blend of surfactants in **Man-uP** gives excellent coverage and adherence to the seed and its formulation as a true solution means it can be evenly applied and dries quickly allowing the seed to run easily through the drill.

Key Benefits

- High levels of manganese to counter low availability
- Essential elements readily available to germinating seed
- Promotes root and shoot development
- Promotes winter hardiness in autumn sown crops
- Increases quality and yield potential
- True solution for even application to seed
- Efficient seed coverage
- Maintains an even seed flow in the drill



Manganese deficiency in wheat.



ANALYSIS:

Manganese (Mn)
Nitrogen (Nitrate N)

12.5% w/v (125 g/l)
6.0% w/v (60 g/l)

Application Rates:

CEREALS/ OILSEED RAPE : 3.0 litres per tonne of seed

Man-uP can be applied directly to the seed or after pre-diluting with water. Do not exceed a total application rate of 3.0 litres per tonne of seed.

Mixing Instructions

Man-uP is formulated as a totally water soluble liquid. Agitate prior to use and apply through existing seed treatment equipment. Equipment should be cleaned thoroughly with water once treatment is completed. The empty container can be rinsed into the application equipment with clean water.

Compatibility

Man-uP has been shown to be fully compatible with other commonly used seed treatments. Consult with your supplier or contact Ilex EnviroSciences for specific recommendations.



Pack Size: 20L drum or 1000 IBC

This product is physically compatible with a wide range of tank-mix partners. Check compatibility prior to adding to the spray tank. Consult your local advisor or Ilex EnviroSciences for specific recommendations. Do not apply in strong sunlight. Efficacy may be affected by crop health, growth stage and weather conditions. Ilex EnviroSciences accepts no liability for damage to treated crops.