

# Product Data Sheet

## NoroTec™ Manganese/Magnesium



### FIELD OF APPLICATION

Foliar fertiliser to combat manganese and magnesium deficiency in agricultural crops.

#### Contents per litre:

75g manganese, 27g magnesium, 40g sulphur, 53g nitrogen.  
The contents are complex-bound.

#### Use

Manganese deficiency gives rise to grey leaf spot disease in cereals. The leaves develop grey or brown spots on their lower halves, after which they often break around the middle, wither and die. Graining gets weaker and green shoots develop. Dicotyledonous plants develop yellow, marbled leaves, often with patterns of dark spots between the leaf veins.

There is magnesium in chlorophyll, the organic substance that's crucial for plant photosynthesis. Magnesium also has other functions for plants. Sugar beets, legumes and cereals need it the most. Magnesium deficiency causes a pale yellow colouring. This often appears unevenly, with spots appearing on the leaves with the lightest parts between the leaf veins. The cereal leaves have a typical pattern with darker green dots on a lighter base.

NoroTec™ Manganese/Magnesium should be used at an early stage for best effect. Experience has shown us that sandy soils, high pH, high soil content and cold and wet weather are factors that affect deficiencies. The most sensitive crops are oats, wheat, rapeseed, sugar beet and potatoes. Peas and barley are somewhere in the middle, while rye has a relatively small need for manganese.

The low dose is used for preventive treatment and the high for deficiency symptoms. The treatment may need to be repeated. The first treatment can usually be done during weed control.

#### Dosage and treatment time

Crop	Treatment time	Dosage NoroTec™ Manganese/Magnesium litre/hectare	Water volume litre/hectare
Cereal seed	At stocking level	1.0-2.0	100-200

#### Compatibility

NoroTec™ Rapeseed is complex-bound and therefore compatible with crop protection products. Always follow the instructions on the label for each crop protection product. If in doubt, check the compatibility. Contact your supplier for further information.

#### Preparation and treatment

The spray container should be 3/4 filled with water and the ingredients added in the order given below. Stirring should be continuous at all times.

- Pesticides in accordance with instructions
- NoroTec™ Manganese/Magnesium
- Then add the remaining amount of water.

#### Precautions

Avoid treatment in extreme climatic conditions such as high temperature, frost, rain or when frost and rain could be expected. In sunny weather, treatments should be performed in the morning or evening.

Do not spray plants that are covered with water droplets or before expected rain. The temperature of the working fluid should be min.

10°C

The best effect is obtained if it does not rain within at least 2 hours after treatment.

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### Cleaning

Spray: Clean all spraying equipment before and after treatment. When mixing with pesticides, follow the pesticide cleaning instructions.

Cleaning empty packaging: Rinse three times. The rinsing water should be mixed with the working solution. Clean empty packaging should be left at the intended collection point within your municipality.

### Warning

Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environments.

Keep out of reach of children. Avoid inhalation of spray mist.

Wear suitable gloves and eye/face protection.

To avoid danger to humans and the environment, follow the usage instructions.

### Storage

Store in a cool, dry place out of reach of children and animals. *Storage temperature 0°C to + 30°C.*

Shelf life 2 years.