

**NOTICE: Before using this product, read the entire label**

A concentrated product for the treatment of  
manganese deficiency

# Manifol

## EXCEL

EC FERTILISER

Manganese carbonate fertiliser in suspension

27.4% w/w equivalent to 500 g/l manganese (Mn)

To be used only where there is a recognised need.  
Do not exceed the appropriate application rates.

**5** litres

9.14 kg net

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# Manifol **EXCEL**

## APPLICATION RATES AND TIMINGS

**Cereals:** 1 l/ha from 2 leaf stage to first node detectable (Zadok's G.S. 12 to 31). For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 200 l/ha. Seed Dressing: 2 to 6 litres per tonne.

**Oilseed Rape:** For a single application, 1 l/ha at onset of stem elongation. For moderate deficiency, 1 l/ha at 4 to 6 leaf stage and at stem extension. For severe deficiency an extra application can be made 10 to 14 days later. Avoid application during flowering. Water rate: 200 l/ha. Seed Dressing: Up to 22 litres per tonne.

**Sugar Beet, Sprouts, Broccoli, Cabbage, Calabrese, Cauliflower, Fodder Beet, Kale, Turnip, Swede:** 1 l/ha from 4 to 6 leaf stage. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 200 l/ha.

**Peas, Beans:** 1 l/ha at 4 to 6 leaf stage (for deficiency/lyoid) and at start and end of flowering (for Marsh Spot). Water rate: 200 l/ha. Seed Dressing: 2 to 6 litres per tonne.

**Maize:** 1 l/ha from 4-6 leaf stage. For moderate to severe deficiency, repeat applications at 10-14 day intervals. Water rate: 200 l/ha. Seed Dressing: 4 to 8 litres per tonne.

**Potatoes:** 1 l/ha 1 week after 100% emergence. For moderate to severe deficiency, repeat applications may be necessary at 10 to 14 day intervals. Also, 1 l/ha following petiole analysis, during tuber bulking. Water rate: 200 l/ha.

**Leeks, Onions, Lettuce (field grown):** 1 l/ha 2 weeks after transplanting. Repeat applications may be necessary at 10 to 14 day intervals. *Note: On lettuce, final application to be made at least one month before harvest.* Water rate: 200 l/ha (leeks and onions), 500 l/ha (field grown lettuce).

**Carrots, Linseed:** 1 l/ha when crop is 15 cm tall. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 200 l/ha.

**Apples, Pears:** 1 l/ha prior to flowering (for severe deficiency), otherwise at petal fall. Repeat 10 to 14 days later. Water rate: 500 to 1,000 l/ha.

**Strawberries:** 1 l/ha at green bud. Water rate: 200 to 500 l/ha.

**Raspberries, Blackcurrants:** 1 l/ha at start of flowering.

Water rate: 200 to 500 l/ha.

**Cherries, Plums:** 1 l/ha at fruit set. If necessary a second application may be made 10 to 14 days later.

Water rate: 500 to 1,000 l/ha.

**Grapes:** 1 l/ha at flowering buds visible, at flower buds separated and at fruit set. Water rate: 500 to 1,000 l/ha.

**Grass/Turf:** 1 l/ha as soon as growth commences in spring. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 200 l/ha.

**Fir Trees:** 1 l/ha once there is new season leaf production, and again in early autumn. Water rate: 500 to 1,000 l/ha.

**Parsnip:** 1 l/ha when crop is 15 cm tall. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. (3 applications maximum). Water rate: 200 l/ha.

## PROTECTED CROPS

0.05 litres per 100 litres water maximum concentration. Water rate: 1000 l/ha maximum. Refer to equivalent field grown crop for application timing.

## DIRECTIONS FOR USE

ALWAYS FOLLOW THESE LABEL INSTRUCTIONS.

*Mix the product thoroughly before use.* Slowly add the product to the tank, three-quarters filled with water, via the induction hopper, whilst agitating. Alternatively, pour through the top filter into the tank, three-quarters filled with water, whilst agitating. Top up with water and continue to agitate until spraying is completed.

Agitating, add the required amount of product either using a filling device, e.g. induction hopper, or directly through the top filter. Add remainder of water and continue agitation until spraying is completed. Do not leave spray mixture in the sprayer during periods of inactivity such as meal breaks or overnight.

**Tank Mixing:** Read ALL labels carefully and adhere strictly to the instructions for use and advice regarding whether or not product(s) should be tankmixed. Many variables, outside the control of Agrovista, can influence the performance of tankmixed products and therefore tankmixing is entirely at the risk of the end-user. It is strongly recommended that a limited crop area only is treated initially when using unfamiliar tankmixes. *Before tankmixing products you, or your advisor, must visit contact Agrovista for specific advice.*

**Precautions:** Only to be used on protected crops if specifically listed. Avoid application under extremes of climate, e.g. rapid drying conditions, extremely slow drying conditions, frost, rain, or when frost or rain are anticipated. Wear suitable gloves and faceshield when handling this product. Clean all equipment before and after use.

## STORAGE

Keep in a cool, dry chemical store, out of reach of children and animals. *Protect from frost and other climatic extremes.*

## CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY

Agrovista warrants that the product within the unopened container conforms to the chemical description on this label. The directions on this label must be followed carefully and are based on tests, believed to be reliable. As the occurrence of unusual weather or soil conditions, and the use of this product, are all beyond the control of the supplier, no guarantee, expressed or implied, is made as to the effects of such use or the results obtained, and in no event shall the liability of Agrovista exceed the price of the product used. The purchaser must assume all risks of storage, use or application of this product. Goods are sold subject to the standard Conditions of Sale of the supplier, available on request. Use of the product implies that the purchaser accepts these Conditions of Sale.

18.01.16 - replaces all previous labels.

**SHAKE WELL!**