



agr chem



MAXI MANG

50 %Manganese



World-leading technology has resulted in the production of Maxi Mang - used for the correction of manganese deficiencies and growth maintenance in a range of crops

Benefits of MAXI MANG™

- ✓ Corrects manganese deficiency
- ✓ Assists nitrate assimilation
- ✓ Sustains growth in plants
- ✓ The low salt index means no phytotoxicity especially when compared with sulphate-based formulations
- ✓ Manufactured using world-leading technology
- ✓ High analysis formulation provides “bang for your buck” and enables low application rates
- ✓ Suspension technology provides sustained release over a long period of time
- ✓ Safe to use on crops especially when used in conjunction with pesticides
- ✓ Clean, easy handling by pumping – no other equipment necessary

THE ROLE OF MANGANESE

Manganese is essential as an enzyme activator which helps with nitrate assimilation. It is also primarily involved in photosynthesis and chlorophyll production and is important in the production of lignin. In C₄ plants (eg maize) and plants that fix their carbon at night, Mn is essential for CO₂ assimilation. Manganese influences auxin levels in plants and is required for maximum activity of many enzyme reactions in the citric acid cycle.



DEFICIENCY SYMPTOMS - MANGANESE

The main symptoms of manganese deficiency include:

- Speckling on leaves and in oats known as ‘grey speck’
- Light green blotches between main veins
- Dark green borders the main veins
- Interveneal chlorotic areas become pale green or dull yellow
- Wheat plants are often more susceptible to root diseases



Manganese deficiency on wheat

Product Characteristics

Specific Gravity: 1.85 Colour: Beige suspension

Analysis	Australia (w/v%)	International (w/w%)
Manganese (Mn) as carbonate	50.0	27.0
Nitrogen (N) as urea	4.6	2.5

Directions for use

Agitate contents well before dilution. Suitable for application by:

 Aerial	 Foliar Spray	 Fertigation
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CROP	RATE / ha	MIN DILUTION*	COMMENTS
ASPARAGUS	1 - 2 L	1 : 100	Apply when sufficient leaf area and before ferns die back
BEANS / PEAS	1 - 1.5 L	1 : 60	Apply from flowering to pod filling
BERRY FRUITS	0.5 – 2L	1 : 100	Apply to newly hardened leaf flush
BRASSICAS / CANOLA	1.25 - 1.5 L	1 : 50	Apply at 5 to 8 true leaf
CARROTS	1 - 1.5 L	1 : 60	Apply when sufficient leaf area and then at 10 day intervals if necessary
CEREALS – foliar - aerial - down-the-tube - seed dressing Barley, Oats Maize Wheat	0.5 - 1 L 1 - 2 L 0.2 - 2 L 3 - 6 L/tonne seed 4 - 8 L/tonne seed 4 - 8 L/tonne seed	1 : 50 1 : 20	Apply before 6 leaf if possible but otherwise before late tillering. In severe deficiency repeat after 14 days. Apply to seed
CITRUS	1.25 - 1.5 L	1 : 300	Apply at spring and autumn growth flush
COTTON	1 - 2 L	1 : 60	Apply at vegetative growth stage and during boll fill if required
CUCURBITS	1 - 2 L	1 : 100	Apply at 6 - 8 leaf stage
KIWI FRUIT	1 L	1 : 100	Apply at development of extension shoots and again post-petal fall / fruit development
LETTUCE	1 L	1 : 60	Apply when sufficient leaf area to receive spray
LUCERNE	1 L	1 : 40	Apply when sufficient leaf area and also at formation of flower bud
ONIONS	1 L	1 : 60	Apply when sufficient leaf area.
POTATOES	1 - 1.5 L	1 : 80	Apply at 7 and 28 days post full emergence
POME FRUIT	1 - 1.5 L	1 : 300	Apply at pink bud and repeat after 21 days if required
PULSES AND LEGUMES	1 - 1.5	1 : 50	Apply once pods on main stem have formed, are about 35mm in length and flowering is complete on secondary stems For severe deficiencies, apply additional spray when plants are 10 - 15 cm in height
STONE FRUIT	1 - 1.5 L	1 : 300	Apply as fruit develops; repeat in 14 days if necessary
STRAWBERRIES	1 - 2 L	1 : 100	Apply during green bud
SUGAR CANE	1 L	1 : 100	Apply when cane is 1 metre high
TROPICAL FRUIT	1 – 1.5 L	1 : 300	Apply to newly hardened flush
TURF Fairways, Tees, Sportsfields Greens	5 - 10 L or 50 - 100 ml/100m ² 2 - 10 L or 20 - 50 ml/100m ²	1 : 40 1 : 40	Apply during the growing season, maximum of 6 applications per year Apply during the growing season, maximum of 6 applications per year
VINES: Table and wine grapes - foliar	0.75 – 2 L or 75 – 400 ml/ 100L	1 : 300	Apply 3 sprays : 1 at shoots 30 – 40 cm with a further 2 applications 21 days apart. Do not apply more than 4x label rate

 **MINIMUM DILUTION** : A dilution of 1 : 100 means 1 part product : 100 parts water. In hot weather, use the higher dilution rates.

** AERIAL APPLICATION: use maximum practical water rates

NOTE: The suggested rates of application are designed for typical Australian conditions and such should be used as a guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefore necessitate corrections to ensure optimum results. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28°C, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf (sap) tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.



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