



August 2021

Magnesium Oxide

ANALYSIS

55 % Magnesium (Mg) w/w as oxide

HEAVY METAL IMPURITIES

Cadmium (Cd)	1 mg/kg Cd	(max)
Lead (Pb)	10 mg/kg Pb	(max)
Mercury (Hg)	0.2 mg/kg Hg	(max)

USE

Incitec Pivot Magnesium Oxide is a granulated magnesium oxide fertiliser, for dry application to the soil. Magnesium Oxide is insoluble. It cannot be used in fertigation programs or in foliar sprays.

Incitec Pivot Magnesium Oxide is not suitable for use as a mineral supplement for livestock, or for the direct treatment of hypomagnesaemia (grass tetany or staggers). Products that have been ground to a fine powder or dust should be used for this purpose.

DIRECTIONS

Being granular and insoluble, Magnesium Oxide takes time to react in the soil after application and release magnesium in forms available for plant root uptake. It needs to be applied early. Magnesium oxide should be applied pre-plant in annual crops, and in advance of the main growing season in trees, vines and plantation crops.

Magnesium Oxide should not be used where Mg deficiency is apparent, and a quick response is required. Nor should it be used in basal planting fertilisers in crops on soils on which Mg deficiency has been known to occur. A water-soluble fertiliser, containing magnesium in the sulfate form, should be used in these circumstances.

The time at which Magnesium Oxide is applied is less critical on soils with moderate Mg levels where Mg is to be applied to maintain the soil's Mg status, rather than to obtain an immediate crop response. Magnesium Oxide reacts most quickly in acid soils, e.g. pH below 6.5. Magnesium Oxide is less effective and may be ineffective in alkaline soils.

ANNUAL CROPS

Magnesium oxide should be broadcast applied early in the fallow period, several months before planting. It is best to wait for a few weeks to allow the granules to weather and disperse before working the magnesium oxide into the soil.

TREE CROPS

Broadcast in advance of the main growing season. If magnesium deficiency is evident in the foliage, supplementary magnesium will need to be applied in a more readily available (water-soluble) form, e.g. through fertigation programs and/or as a foliar spray.

APPLICATION RATES

Suggested application rates for magnesium oxide, which may remain effective for several years, are:

- Pasture, forage, grain and oilseed crops. 50 – 200 kg/ha;
- Sugarcane (for a crop cycle). 150 – 300 kg/ha
- Horticulture - vegetables, tree crops and vines. 200 – 400 kg/ha

In perennial horticultural crops, magnesium oxide may be applied more regularly in combination with nitrogen (N), phosphorus (P) and potassium (K), in fertiliser programs. A suggested annual application rate is 50 - 100 kg/ha.

Magnesium oxide is not recommended where a quick response to Mg is required, i.e. in planting fertilisers for annual crops, or during the growing season.

An Agritopic on Magnesium is available in which the use of Mg fertilisers is discussed in more detail. It should be read in conjunction with these Use Directions.

CARE OF EQUIPMENT

Fertilisers can be corrosive to metals. So clean equipment after use.

SAFETY DIRECTIONS

Magnesium Oxide is characteristically a dusty product. Avoid inhaling the dust. Avoid contact with eyes or skin. Wash hands after use.

WARNING

Before using fertiliser seek appropriate agronomic advice. Fertiliser may burn and/or damage crops. Because climatic and soil conditions, application methods, irrigation and agricultural practices are beyond the control of Incitec Pivot Limited and cannot be foreseen, Incitec Pivot Limited accepts no responsibility whatsoever for any commercial damage, loss or other result following the use of this product whether used in accordance with directions or not, subject to any overriding statutory provision and provided that such liability under those provisions shall be limited to the replacement of the goods as supplied or the rendering again of the services that are provided. The buyer accepts and uses this product subject to these conditions.

Incitec Pivot Fertilisers (a business of Incitec Pivot Ltd ABN 42 004 080 264)

28 Freshwater Place

Southbank Vic 3006

Freecall 1800 009 832

www.incitecpivotfertilisers.com.au