

# Microbe Plus® Zinc

*A Microbially Digested Blend of Zinc Sulphate  
that can be Applied to Soil and used as a Foliar Spray.*



## Introduction

### Microbe Plus® Zinc

GrowGreen's range of Microbe Plus® products are a true fusion of biological and conventional NPK fertilisers. They have a comprehensive suite of bacteria and fungi providing beneficial microbes

Microbe Plus® Zinc has been created via a unique process that digests Zinc sulphate with these beneficial microbes. This process has created a powerful and highly effective Zinc supplement. Microbe Plus® Zinc is biologically active.

The key benefit of GrowGreen's Microbe Plus® Zinc is that it can be used as both a soil applicator to correct zinc deficiencies and also as a foliar application. This provides excellent flexibility with regards to the method of application.



Zinc deficiency has the following effects in all type of plants.

- Reduces shoot growth
- Reduces root growth
- Reduces leaf area
- Reduces protein synthesis
- Reduces carbohydrate metabolism
- Inhibits metabolism of IAA (Zn has a significant role in IAA biosynthesis)
- Chlorosis
- Membrane leakage

Many soils are naturally deficient of Zinc. GrowGreen Microbe Plus® Zinc provides a cost effective and efficient solution for Zinc deficient situations.

All the nutrients in Microbe Plus® Zinc have been microbially digested using our proprietary blend of beneficial soil microbes. This process emulates the natural process found in nature and converts the nutrients into 100% plant available form.

Microbe Plus® Zinc is in metabolic form (proteins, vitamins), and not in general divalent  $Zn^{+2}$  form, hence foliar application is highly efficient.

Zinc has the tendency to form bonds with N-, O-, S-, ligands of proteins, thereby activating the functionality of enzymes. Zinc has an association with large number of enzymes such as Alcohol dehydrogenase, RNA polymerase, Isomerase etc. Zinc is essential in carbohydrate metabolism and in protein synthesis.

## Details

### Active Ingredients

Zinc sulphate, molasses, fulvic acid, microbes and fungal promoters

### Compatibility & Use

Microbe Plus® Zinc can be mixed and applied with most commonly used pesticides and fungicides, however we strongly recommend checking labels for compatibility as well as pre testing in a small area prior to widespread application.

### Optimising results

For optimum results, we recommend to use with GrowGreen Profert® or AminoElite™, Microbe Plus® Horticulture or Xtend® plant oil adjuvant when foliar spraying. Your GrowGreen Agronomist will assist in developing fertilizer programs specific to your soil and crop. Xtend® will maximise the result by reducing drift and increasing adherence to the sprayed surface.

### Application Details

Microbe Plus® Zinc is suitable to use in a wide range of different crop applications, including:

Pasture, broad acre, cereal crops, viticulture and all other horticultural crops.

Crop	App. Rate/Ha	No. of applications
Horticultural crops	4 – 5L	3-4 foliar applications; post flowering & fruit enlargement stage
Broad acre Winter crops	2 – 3L	2 foliar applications (mid tillering and booting – grain filling stage)
Broad acre Summer crops	4 – 5L	2-3 foliar applications; pre flowering, post flowering and grain filling stage

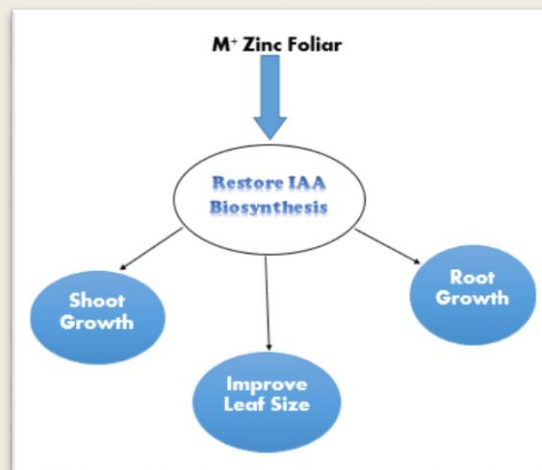
### To be diluted in a minimum of 100L of water p/Ha

*\*We recommend foliar Spray to the point of run off Pending soil and leaf analysis, application rates may vary. The above should be used as a guide only.*

**Avoid spraying in high temperature and high UV Conditions**

### Analysis (W/V)

Nutrient	Form	Analysis
Potassium (K)	as molasses	0.20%
Sulphur (S)	as sulphate	2.30%
Zinc (Zn)	as sulphate	5.00%



### Microbe Plus® Zinc Shelf Life

Microbe Plus® Zinc should be stored at ambient temperature conditions.

It should be stored out of direct sunlight, but within a well-lit area, so the microbial digestion process continues.

Sedimentation will rise after prolonged storage. As such we recommend use within 12 months of the date of manufacture.

### Packaging

Microbe Plus® Zinc is available in the following container sizes: 20L and 1000L.

For information about specific application rates, or use with specific crops please contact us on

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