



Knowledge grows

YaraVita™ GRAMITREL™

YaraVita GRAMITREL is a highly concentrated flowable formulation that combines key nutrients to form the foundation of a balanced foliar nutrition program for cereals and horticulture crops such as citrus, grapes and potatoes.

Guaranteed Analysis

Nitrogen (N)	6.4% w/v	64g/l
Magnesium (Mg)	15% w/v	150g/l
Copper (Cu)	5% w/v	50g/l
Manganese (Mn)	15% w/v	150g/l
Zinc (Zn)	8% w/v	80g/l

Benefits

- Specifically formulated to provide maximum crop safety. This helps ensure that applications will not cause damage to the crop and reduce its market value.
- Foliar formulation - the combined effects of included wetting agents, sticking agents and absorption agents helps to retain spray droplets on the leaf and increase nutrient uptake.
- A controlled particle size gives quick and long lasting nutrient uptake. This reduces the need for repeat applications, saving both time and money.
- A broad tankmixability makes it easy to co-apply the products with agrochemicals, saving both time and money. Just as important, free access to Tankmix information online (www.tankmix.com) or via smart phones makes it quick and easy to check whether products can be co-applied.
- High quality, consistent products manufactured to ISO 9001 quality guarantees the product performance.

Nutrients

Magnesium (Mg)

It is the central component of the chlorophyll molecule, which is key importance to energy production for plant growth and development. Mg is also involved in phloem transport of sugars and carbohydrates from sink organs (leaves) to storage organs (fruit/tubers/seeds). Optimum Mg supply helps against photo-oxidative damage of chloroplasts by reactive oxygen species.

Copper (Cu)

Copper is essential for photosynthesis and acts as a co-factor of many plant enzymes. Cu plays a key role in flower and seed formation and the synthesis of lignin. Lignin provides physical strength to roots, stems and vascular tissue, which is required to support the plant and for the movement of water through vascular tissue.

Manganese (Mn)

Manganese is involved in the function of many enzymes, such as detoxification of reactive oxygen species and the water splitting enzyme that provide oxygen to form carbohydrates. Mn deficiency reduces chlorophyll content and lignin synthesis. Adequate Mn nutrition maximises the inherent resistance of plants.

Zinc (Zn)

Zinc is essential for root and shoot development due to its role in auxin (plant growth) synthesis. Auxins control the growth of plants by influencing cell elongation, which directly impacts root and stem elongation. Adequate Zn nutrition supports pollen viability, which promote successful flower fertilisation and seed set.

Why Foliar Apply?

Foliar application ensures precise placement of the right nutrient mix at the right time and can be specifically targeted to the leaf or fruit. This supplies nutrients which are available for immediate plant uptake. As a result, growers can target nutrient applications to:

- Supplement nutrient supply during periods of rapid growth, when plant requirements exceed uptake from the soil.
- Manage fruit/ grain/ tuber development.
- Quickly rectify shortages and provide nutrients for healthy growth.

Product Recommendations

Always consult the product label before use.

Crop	Application Recommendation	Water Rates (l/ha)
Almond	Apply 2 l/ha beginning at leaf canopy development 2 weeks after nut set, repeat 14 - 21 days after if necessary. Additionally, 2 - 4 l/ha after harvest before leaf senescence.	100 - 200
Avocado	Apply 3 - 5 l/ha during Spring flush and again during Summer flush.	500 - 1000
Cereals	Apply 2 - 4 l/ha from 2 leaf stage to second node detectable (Zadoks G.S. 12 to 32). Repeat applications at 10 - 14 days interval, within this timing. In addition, 1 l/ha from second node detectable to flag leaf fully emerged (Zadoks G.S. 32 to 39).	50 - 200 Seed Dressing: 3 - 6 l/Mt
Corn/ Maize	2 l/ha at the 4 - 8 leaf stage. Repeat if necessary at 10 - 14 days interval.	50 - 200
Citrus	Apply 3 - 5 l/ha during Spring flush and again during Summer/ Autumn flush.	500 - 1000
Grapevines	1 - 2 l/ha. Two applications pre-flowering at 10 - 14 days interval.	200
Olive	3 l/ha applied between bud burst and just before the start of flowering. N.B. Do not apply during flowering. Also, apply 3 l/ha post harvest before leaf senescence.	500 - 1000
Stone Fruit	2 - 4 l/ha after harvest before leaf senescence.	Minimum 200
Potatoes	3 l/ha one week after 100% emergence. Repeat at 10 - 14 days interval if required.	50 - 200
Rice	2 - 3 l/ha applied at start of tillering and again at panicle initiation.	50 - 200
Sorghum	Apply 2 l/ha at the 4 - 6 leaf stage. Repeat if necessary 2 weeks later.	50 - 200



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