

# Kingfol

## flowable foliar nutrients

Kingfol foliar nutrients have been formulated using the high quality mineral elements, to give the benefits listed below:

- ◆ Concentrated liquid formulations to minimise handling, packaging, transport and application rates
- ◆ Widely tank-mixable with agrochemicals
- ◆ Formulated with uptake enhancers to optimise performance over time
- ◆ Disperses easily with no need for pre-mixing
- ◆ Single element formulations to correct specific deficiencies



### The Kingfol Range

Product	Element	Analysis	w/v	w/w	Application Rate l/ha
Kingfol Mg	Magnesium	Mg	22%	17%	2 - 4
Kingfol S	Sulphur	S	72%	51%	5 - 10
Kingfol Zn	Zinc	Zn	70%	41%	0.5 - 1
Kingfol Cu	Copper	Cu	100%	49.5%	0.25 - 0.5
Kingfol Mn	Manganese	Mn	52.8%	28.9%	0.5 - 1
Kingfol Cu/Mn/Zn	Copper	Cu	8.0%	4.7%	0.5 - 1
	Manganese	Mn	33.0%	19.4%	
	Zinc	Zn	11.0%	6.5%	
	Nitrogen	N	1.7%	1.0%	

### DIRECTIONS FOR USE

The spray tank should be filled with half of the required amount of water. Measure the required amount of Omex Kingfol and add to the tank whilst maintaining constant agitation. Add remaining water to correct dilution. Spray.



**DILUTION:** Recommended water rate is 500-1000 Litres per hectare

**Always shake container before opening**



### Magnesium

Magnesium is a major element, essential for optimum growth and development in plants. It is an integral part of chlorophyll, and also involved in enzyme systems which govern oil production on yield in oilseed rape and other oil bearing crops. It is used widely as a foliar spray on cereals at ear emergence, and on potatoes during bulking, to increase yield.

### Sulphur

Sulphur is a major element for plant growth. Atmospheric deposition has declined dramatically in recent years and consequently the need for supplementation is now greater than ever. Kingfol S is a unique formulation of 'bio sulphur' which contains microbial biomass. This, coupled with the extremely fine particle size, gives responses which can be greater than conventional sulphur sources, such as ammonium sulphate.

### Zinc

Throughout the world Zinc deficiency is the most widespread of all the micronutrients. It stimulates enzyme activity within the plant and can be associated with calcium in deficiencies such as bitter pit. Applications of foliar zinc often stimulate rooting and are particularly useful in early crop growth.

### Copper

Copper is a micronutrient involved in many enzyme systems. Some of these include pollen formation and fertility, with deficiency resulting in effects on plant growth and yield.

### Manganese

The micronutrient manganese is involved in many enzyme systems within the plant. Deficiencies are common in a wide range of crops. Manganese can be poorly absorbed from the soil and foliar applications are often a routine part of crop production.

### Foliar absorption

The use of unique enhancers allows the nutrients to enter the plant by two main pathways, one acting quickly and the other more slowly. This provides a mechanism for sustained uptake over time. The quick uptake is achieved by direct entry via stomata on the surface of the leaf.

This relies on good coverage from the foliar spray. To maximise uptake via this route, addition of a good quality wetter, such as Omex SW7 is recommended. This leads to stomatal flooding, allowing maximum absorption.

The slower, sustained uptake is brought about by the uptake enhancers in the formulation. These work by stimulating the microbes which live naturally on the surface of the leaf – sometimes referred to as the epiphyllic micro organisms. These help solubilise the remaining foliar spray. Once in ionic form, it then passes into the plant by diffusion through minute aqueous pores in the leaf cuticle.

### TANK MIXING COMPATIBILITY

The Omex Kingfol Range is compatible with most, but not all, pesticides, growth regulators and micro-nutrients with regard to physical tank mixing and biological effects on the crop. However, Omex cannot accept any liability for any loss or damage as not all pesticides have been tested and because the efficacy of any mix will depend on, among other factors, the pesticide concerned, crop conditions, growth stage, weather and volumes of water used.

### PRECAUTIONS

The Omex Kingfol Range should be stored in frost free conditions with optimum storage range between 5-40°C. The Omex Kingfol Range is a non-hazardous and non-flammable foliar fertiliser. Gloves and face shield should be worn when handling the concentrate. In situations of prolonged storage there may be slight settling of the nutrient particles. This is reversible on shaking.

**PACKING:** Omex Kingfol is available in HDPE drums of 0.25L, 0.5L, 1L, 3L, 5L, 10L capacity. Drums are fitted with tamper evident closures. 200 and 1000 Litre mini bulk available.

**OMEX**  
**AGRIFLUIDS**

**Omex Agrifluids Limited**  
 Saddlebow Road • King's Lynn • Norfolk PE34 3JA • UK  
 t: +44 (0)1553 817 500 • f: +44 (0)1553 817 501  
 e: [agrifluids@omex.com](mailto:agrifluids@omex.com) • [www.omex.com](http://www.omex.com)