



## *Ilex PK Maxx*

A NOVEL NUTRIENT FORMULATION BASED ON **PHOSPHITE** CHEMISTRY TOGETHER WITH **ESSENTIAL TRACE ELEMENTS** FOR USE ON VEGETABLE AND SALAD CROPS

**PK Maxx** is a unique combination of soluble nutrients, specifically designed to promote and maintain healthy plant growth via optimum nutrition.

### **Why use Ilex PK Maxx on my crops?**

**PK Maxx** is based on the highly mobile form of phosphorus known as **phosphite** ( $PO_3^-$ ). This molecule is able to move through the major transport routes of the plant (the xylem and phloem) far more quickly than conventional phosphate fertilizer. This means PK Maxx is able to provide a readily available source of Phosphorus exactly when and where it is needed by the plant.

**PK Maxx** also contains a tailored nutrient package consisting of **Magnesium, Manganese, Zinc, Boron, Copper, Iron** and **Molybdenum**. These elements are all vital for healthy crop growth despite being required in only relatively small amounts.

Each element performs a key role in such essential functions as photosynthesis, chlorophyll formation and plant absorption of carbon dioxide.

These trace elements or micronutrients are also central to many enzyme reactions which regulate the growth and development of the crop by controlling the synthesis of its DNA and RNA and therefore protein production.

Nitrogen, Phosphorus and Potassium all play vital roles in crop production:

Nitrogen is an elementary constituent of amino and nucleic acids, proteins and chlorophyll. It is a key constituent of cell chromosomes, genes and ribosomes (responsible for the transfer of genetic information in the plant). Nitrogen is implicated in all enzyme reactions in the plant cell and cannot be replaced by any other element.

Phosphorus cannot be substituted by other elements. It is an essential part of nucleic acids and cell membranes. It has a key role in energy transfer within the cells and as a result governs carbohydrate, fat and protein metabolism. Phosphorus is important in the development of plants and is therefore needed at an early stage during root formation.

Potassium is highly mobile in the plant system and is either present in or responsible for activating more than 60 key enzyme reactions. This is chiefly by keeping the active enzyme centre free of unwanted material by regulating water content in the plant plasma and controlling movement of nutrients.

# Ilex PK Maxx

<b>ANALYSIS:</b>	Nitrogen (Ureic N)	26 g/l (2% w/w)
	Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> )	310 g/l (24% w/w)
	Potassium Oxide (K <sub>2</sub> O)	65 g/l (5% w/w)
	Magnesium (MgO)	10 g/l (0.75% w/w)
	Manganese (Mn)	10g/l (0.75% w/w)
	Zinc (Zn)	7.5g/l (0.57% w/w)
	Boron (B)	600 mg/l
	Copper (Cu)	1300 mg/l
	Iron (Fe)	600mg/l
	Molybdenum (Mo)	300mg/l

## User Advice:

**PK Maxx** is formulated as a true solution and is totally water-soluble. It should be added to the spray tank first into a minimum of 50% of the total water volume to be applied. The remainder of the water should be then added followed by any other products.

This product is 100% water-soluble and any container residue can be rinsed into the spray tank with clean water.

## Compatibility

**PK Maxx** has been tested with a wide range of potential tank-mix partners and found to be physically compatible with all but a few products. (Consult with your local advisor or contact Ilex EnviroSciences for specific recommendations).

For maximum crop uptake (particularly in spells of hot weather) **PK Maxx** is best applied during the late afternoon/evening.

## Application Rates & Timings:

To assist and maintain healthy crop growth the following rates and timings are recommended for **PK Maxx**.

### BRASSICAS/ FIELD VEGETABLES:

1.5-3 l/ha @ 3-4 true leaves  
Repeat at 14-21 day intervals

### ROOT CROPS:

1.5-2.5 l/ha @ 4-6 true leaves  
Repeat at 14-21 day intervals

### ALLIUMS:

2-3 l/ha @ 3-4 true leaves  
Repeat at 14-21 day intervals

### LEAFY SALADS:

2-3 l/ha 7-10 days post planting  
Repeat at 10-14 day intervals

### PEAS & BEANS:

1.5-2.5 l/ha 7-10 days post planting  
Repeat at 10-14 day intervals

**PK Maxx** is recommended for application at water rates of between 2-600 l/ha depending on crop.

For difficult to target foliage the use of a suitable wetting agent such as Ilex Optiwet at 50ml/100L of water is advised.

## Available in:

2 x 10L Litre packs and 1000 litre IBCs

*For further details on this or any other Ilex crop nutrition product, please contact your local advisor or Ilex EnviroSciences*

Ref:PKM0811

Ilex EnviroSciences Ltd PO Box 158, Market Rasen, LN8 3WR. Telephone: 01673 885175 Fax: 01673 885163

Email: [sales@ilex-envirosciences.com](mailto:sales@ilex-envirosciences.com) or visit us on the web for more detailed information at

[www.ilex-envirosciences.com](http://www.ilex-envirosciences.com)