

STARX[®]
FOR BOTANIC GARDENING



Best Quality



Chloride-Free



100% Pure
Plant Nutrients

MKP BLOOM ENHANCER

Ideal For All Growth Stages



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Packing Size:

500G, 1KG



MKP Bloom Enhancer is pure residue-free fully hydrosoluble monopotassium phosphate (0-52-34).

MKP Bloom Enhancer provides a huge amount of needed phosphorous and potassium to plants at all growth stages. Its high purity and water-solubility makes **MKP Bloom Enhancer** suitable for hydroponics, foliar application and all fertigation systems.

MKP Bloom Enhancer highly recommended for early growing season, when phosphorus and potassium are needed at high rates for the establishment of root system.

Application of **MKP Bloom Enhancer** at the productive stages helps the crops to increase sugar content and to improve the quality.

Foliar applications of **MKP Bloom Enhancer** will help suppress leaf diseases such as powdery mildew, when infection pressure is low.

MKP Bloom Enhancer can be mixed with all water-soluble fertilizers, except for calcium fertilizers and concentrated magnesium solutions. In hydroponic systems, it should normally be added to the B tank along with the sulphates and trace elements.

MKP Bloom Enhancer has a buffering effect which will help stabilise the pH of the solution at around 4.5.

BENEFITS

- Gives excellent budding, blooming, flowering and quality fruiting.
- Increase uptake of various vital elements like Nitrogen, Iron, Boron, Copper and Manganese.
- Boosted root growth.
- Increases the luster quality of seeds and enhance the crop hardy.
- Increases yield and shelf life of the produce.
- Buffering effect stabilizes the pH of nutrient solutions.
- Free from Chloride, Sodium and other harmful elements.

PRODUCT SPECIFICATIONS

Phosphorous (P_2O_5)	52.1%
Phosphorous (P)	22.7%
Potassium (K_2O)	34.5%
Potassium (K)	28.6%
Solubility (20°C)	225 g/L water
EC (1 g/L at 25°C)	0.7 mS/cm
pH (1% solution)	4.5

DOSAGE

Foliar Application:

5g - 8g per litre of water. 2 - 3 applications at 10 - 15 days interval.

Soil Application / Fertigation:

8g - 12g per litre of water. 2 - 3 applications at 14 days interval.



MKP Bloom Enhancer is a fully water-soluble mono-potassium phosphate fertilizer, a highly efficient source of phosphorus and potassium for plants. As a nitrogen-free fertilizer, **MKP Bloom Enhancer** is the preferred source of phosphorus and potassium when nitrogen fertilization should be limited. A common case is at early growing season, when phosphorus and potassium are needed at high rates for the establishment of root system. Application of **MKP Bloom Enhancer** at the productive stages of sugar-rich fruit crops helps to increase sugar content and to improve the quality of these. **MKP Bloom Enhancer** can be applied in combination with other fertilizers to meet crop nutritional needs throughout the growth cycle. Its high purity and water-solubility make **MKP Bloom Enhancer** an ideal fertilizer for Nutrigation and for foliar application. Additionally, **MKP Bloom Enhancer** is suitable for preparation of fertilizer blends and production of liquid fertilizers.

The advantages of MKP Bloom Enhancer

- Fully water-soluble
- Consists of 100% plant nutrients
- Free of chloride, sodium and other detrimental elements for plants
- Safe for plants and humans: has a moderately low pH and low salt index
- Suitable for the Nutrigation, foliar application and production of fertilizer blends and nutrient solutions

Product analysis

Nutrient	Content
P ₂ O ₅	52%
P	22.7%
K ₂ O	34%
K	28.7%

Water solubility

The solubility of **MKP Bloom Enhancer** is enhanced by increase in water temperature, as shown in the following table.

Water temperature(°C)	0	10	20	30	40
Solubility (g/100g water)	14.8	18.3	22.6	28.0	33.5

pH and EC

MKP Bloom Enhancer has a moderately low pH that remains almost constant at different concentrations.

Concentration (%)	0.1	0.2	0.3	1.0	5.0
PH	4.7	4.6	4.6	4.4	4.2

The electrical conductivity (EC) increases substantially when high concentrations of **MKP Bloom Enhancer** are used, and yet, its low salt index assures safe use.

Concentration (%)	0.1	0.2	0.3	1.0	5.0
EC (mS/cm)	0.86	1.66	2.5	7.4	27.8

Application Recommendations

Nutrigation

It is recommended to use **MKP Bloom Enhancer** as a source of phosphorus and potassium where nitrogen levels should be kept low. Because of its unique characteristics, **MKP Bloom Enhancer** can be applied through any irrigation system and on any growth medium. Unlike phosphoric acid, **MKP Bloom Enhancer** is moderately acidic (see table on the facing page). Therefore, it is not corrosive to fertilizer pumps or to irrigation equipment.

Compatibility

MKP Bloom Enhancer is compatible with most water-soluble fertilizers, except for fertilizers containing calcium (Ca^{++}) or magnesium (Mg^{++}). To apply **MKP Bloom Enhancer** in combination with calcium or magnesium fertilizers, use two fertilizer tanks. If the system includes only one tank, apply these fertilizers at different times.

Quantitative Nutrigation

Each kilogram of **MKP Bloom Enhancer** in the tank provides 520 grams of P_2O_5 (230g P) and 340 grams of K_2O (280g K).

Proportional Nutrigation

The phosphorus and potassium concentration in the irrigation water depends on the quantity of **MKP Bloom Enhancer** in the tank mix, and on the injection ratio. Use the following table to calculate the quantity of **MKP Bloom Enhancer** and the injection ratio needed to reach your target concentration in the irrigation water.

MKP Bloom Enhancer g/1000 liter water	Nutrient concentration (ppm, g/1000 litre)			
	P_2O_5	P	K_2O	K
100	52	22	34	28
110	58	25	37	31
135	70	30	46	38
180	93	40	61	51
225	116	50	76	63

Foliar Nutrition

Foliar application of **MKP Bloom Enhancer** is an optional supplement to soil fertilization at growth stages when high levels of phosphorus and potassium are required. At early season foliar application with **MKP Bloom Enhancer** promotes the establishment of healthy root system.

MKP Bloom Enhancer is an efficient suppressor of powdery mildew in susceptible crops (deciduous, vineyards, mango, cucumbers, melons, roses and others). Application of 1% **MKP Bloom Enhancer** mixed with systemic fungicides improves the efficiency and enable to reduce application rates of the latter.

MKP Bloom Enhancer is compatible with most commonly used pesticides and fertilizers. However, it should not be mixed with calcium or magnesium fertilizers. Iron, manganese, zinc and copper must be in the form of chelates.

Field-crops and vegetables: On young leaves, spray concentration of 1.0% **MKP Bloom Enhancer** is recommended in most crops. On mature leaves and more tolerant crops, concentration of 2.0% may be applied.

Fruit-trees:

Crop	Conc.	Timing
Citrus	1-3%	2-3 successive monthly sprays at early fruit development, starting 1 month after fruit-set
Stone fruits	1-2%	2-4 applications from fruit-set to fruit coloring
Table grapes	1-2%	1 application during fruit-set, 1 during ripening
Bananas	1-2%	2-6 applications with the application of pesticides
Vineyards	2%	1 application during fruit-set, 1 during ripening
	1%	Every 2 weeks, starting when twigs are 10-14cm long until veraison, alternated with proper fungicide.
Olives	3-5%	1 application in early spring for flower induction and fruit setting, 2 applications during fruit development, 1 application on September during sizing and oil filling.

It is advisable to confirm compatibility of your intended spray-mix by preparing a sample of the spray materials at their recommended concentrations in order to rule out the possibility of a detrimental cross reaction. This mixture should be sprayed onto small area prior to commercial treatment, in order to assess whether an adverse effect occurs.