

MAXi-BUFFTM organic

ORGANIC REGISTERED WATER CONDITIONING AGENT FOR LIQUID FERTILISERS

Active Constituents: Fermentation derived Citric acid $\geq 60\%$
Organic pH indicator $\leq 30\%$ Organic surfactant $\leq 2\%$

- **FOLIAR FERTILISER LEAF PENETRANT**
- **BUILT-IN AUTO pH INDICATOR AT pH 4.5 FOR OPTIMUM FOLIAR FERTILISER UPTAKE**
- **ACIDIFYING AGENT FOR HIGH pH WATER**
- **HARD WATER SALT NEUTRALIZER**
- **HIGH STRENGTH RHAMNOLIPID WETTING AGENT FOR BETTER LEAF COVERAGE**

GENERAL INFORMATION

MAXi-BUFF organic is a unique multi-function water conditioner and pH indicator formulated with a registered organic citric acid derived from a fermentation process and a special organic pH indicator. It is designed to deal with hard water and buffer the pH of spray solutions in a fast and effective manner while not being corrosive like other organic acid products.

MAXi-BUFF organic is designed to improve the uptake and translocation of organic foliar nutrients and other sprays. MAXi-BUFF organic rapidly and very simply corrects spray alkalinity to the optimum pH range for foliar sprays and uptake of foliar nutrients. MAXi-BUFF organic also converts hard water calcium and magnesium salts into plant available micro-nutrients.

HOW TO USE

MAXi-BUFF organic must be added in the spray solution after foliar fertilizers and before pesticides. Add MAXi-BUFF organic in small quantities to the spraying water with continuous agitation until the colour turns from Pink/Purple pH ≥ 7 to Purple/Orange pH 7-4 and Orange/Yellow pH ≤ 4 . Typically 50ml of MAXi-BUFF organic will reduce 100L of solution from pH 8 to pH 4.5.

If the tank content cannot be visualized, take a 1L sample of the spray solution and add MAXi-BUFF organic drop by drop from a 1ml graduated syringe. Measure the quantity of MAXi-BUFF organic added to get to a stable orange colour of the 1L sample. Multiply that number by the number of litres in the tank and add that quantity to the tank. Harder water will required more MAXi-BUFF organic to reduce the pH.

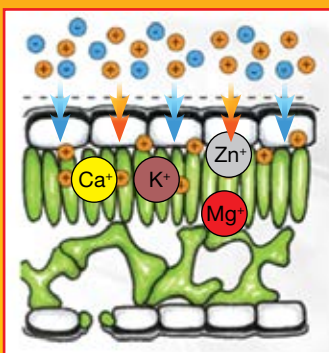
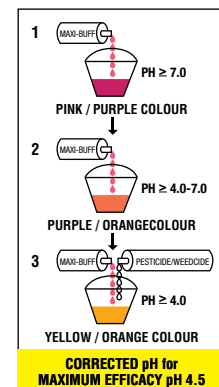


Figure 1: Schematic cross section diagram of leaf showing movement of major cation nutrients into the leaf under a low pH environment.

MAXi-BUFF organic increases the availability of Cations (H^+) in the spray solution and on the leaf surface. This creates a **Cation diffusion gradient** along which essential nutrients like Ca^+ , K^+ , Zn^+ , Mg^+ , Mn^+ , B^+ , Mo^+ can move across and through plant cell walls.

