



Reg. No. B5564 Act. No. 36 of 1947

LiQuiDo Base

LiQuiDo™ Base forms part of our Bio Innovation™ range



Description

LiQuiDo™ Base is a liquid fertilizer containing highly stable chelated micro-elements.

Key Benefits

- Keep micro-elements available for plant uptake at a high pH range.
- Compatible with a wide range of NPK liquid fertilizers or tank mixes thereof.
- Can be applied both foliar as well as to the soil.

Composition

Element	Content (g/kg)	Content (g/L)
Manganese (Mn)	22	27
Zinc (Zn)	16	20
Copper (Cu)	6.5	8
Boron (B)	6.5	8

SG = 1.22

Key function of elements

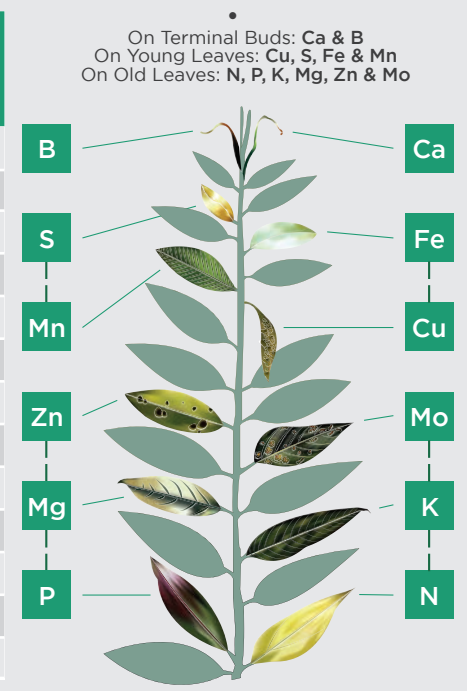
- **Mn** is a cofactor for 35 enzymes involved in photosynthesis. It further plays a role in stress tolerance and N-metabolism.
- **Zn** is involved in enzyme systems that regulate early growth of crops. It has a key function in the formation of growth hormones.
- **Cu** activates key enzymes and is necessary for pollen formation that affects grain, seed and fruit formation.
- **B** is essential for cell wall formation. Moreover, it is required for optimum pollination, fruit and seed development.

Application Rates

Crop	Dosage
Soil application	
All crops	5 L-25 L/ha
Foliar application	
Row crops	Foliar spray 200 ml-1 L/100 L water. <i>(maximum 5 L/ha)</i> Via irrigation system 5-20 L/ha. <i>(maximum 20 L/ha)</i>
Vegetable crops	Foliar spray 200 ml-1 L/100 L water. <i>(maximum 5 L/ha)</i> Via irrigation system 5-20 L/ha. <i>(maximum 20 L/ha)</i>
Fruit Tree crops	Foliar spray 200 ml-1 L/100 L water. <i>(maximum 10 L/ha)</i> Via irrigation system 5-20 L/ha. <i>(maximum 20 L/ha)</i>

Average concentration in plant tissue & General deficiency symptoms

mg/kg in dry leaf mass	Element	Deficiency symptoms
15000	N	Yellowing of older leaves & stunted growth
2000	P	Dark green/purple older leaves & stunted growth
10000	K	Yellowing & necrosis of leaf margins for older leaves
5000	Ca	Deformed young leaves & desiccation of growing points
2000	Mg	Interveinal chlorosis of older leaves
1000	S	Yellowing of younger leaves & stunted growth
100	Fe	Interveinal yellowing of younger leaves
20	Zn	Interveinal yellowing and rosettes of young leaves, necrotic spots and twigs die back
50	Mn	Interveinal yellowing of younger leaves with necrotic spots
6	Cu	Yellowing and curling of leaf blades with white tips, die back of shoots
20	B	Thick textured leaves & affect flowering and seed filling.
0,1	Mo	Yellow, wilted and rolled-up leaves with burned margins
0,1	Ni	Small curled older leaves with necrotic tips

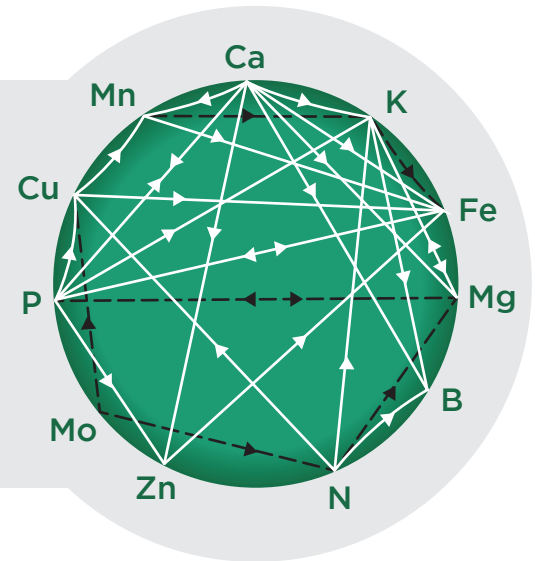


Interactions between nutrients that reduces availability

Macro-elements	Micro-elements
Zn - P	Zn - Fe
Zn - N	Mn - Fe
Fe - P	Mo - Fe
Cu - P	Cu - Fe
Mo - S	Cu - Mo
Zn - Mg	Cu - Zn
B - Ca	

ANTOGONISM →
Decreased availability of a nutrient to a plant due to the action of another nutrient

STIMULATION - - - →
High level of a nutrient increases the demand by the plant for another nutrient



Effect of pH on nutrient availability

