



Reg. No. B5603 Act. No. 36 of 1947

# LiQuiDo™ Cu

LiQuiDo™ Cu forms part of our Bio Innovation™ range



## Description

LiQuiDo™ Cu is a liquid fertilizer containing highly stable chemical chelated copper (Cu).

## Key Benefits

- Keep Cu available for plant uptake at a high pH.
- 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)
Copper (Cu)	74	97

SG = 1.31

## Key functions of Cu

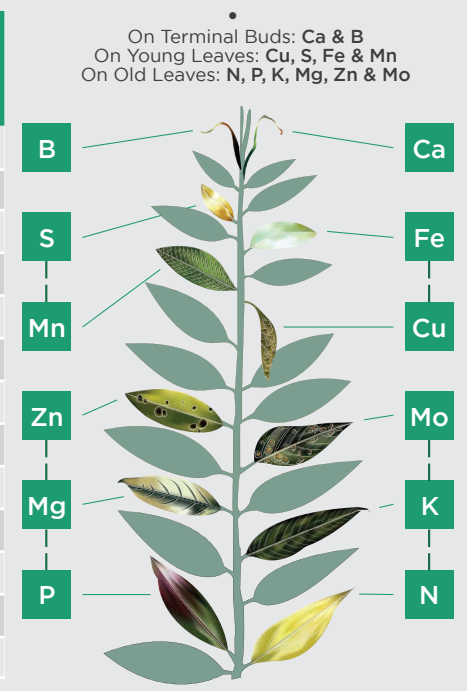
- Plays a role in photosynthesis and respiration.
- Part of more than 100 proteins in crops.
- Detoxifies crops against free radicles and is involved in Vit C metabolism.
- Necessary for carbohydrate and N metabolism.
- Affects flower and pollen formation.

## Application Rates

Crop	Dosage
<b>Soil application</b>	
General crops	1-10 L/ha
<b>Foliar application</b>	
Row crops	Foliar spray 200 ml-1 L/100 L water. <i>(maximum 5 L/ha)</i> Via irrigation system 4-12 L/ha. <i>(maximum 12 L/ha)</i>
Vegetable crops	Foliar spray 200 ml-1 L/100 L water. <i>(maximum 5 L/ha)</i> Via irrigation system 4-12 L/ha. <i>(maximum 12 L/ha)</i>
Fruit Tree crops	Foliar spray 200 ml-1 L/100 L water. <i>(maximum 5 L/ha)</i> Via irrigation system 4-12 L/ha. <i>(maximum 12 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

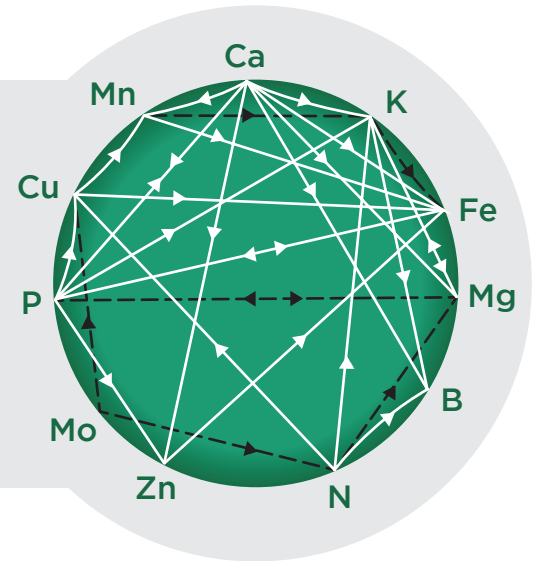


## Interactions between nutrients that reduces availability

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	

**ANTAGONISM** →  
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

