

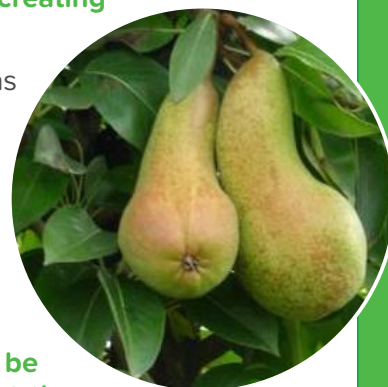
## Chelal® Kubig: copper chelate of the next generation

The copper in **Chelal® Kubig** is completely chelated and especially developed for foliar applications. The translocation of absorbed copper, between the roots and the above-ground plant parts is generally very low, which is a particular problem with this element. Chelal® Kubig ensures a good supply of copper, most of all to the leaves.

**Chelal® Kubig** is a copper chelate with a positive charge, and it works like a “slow-release fertiliser”. The positive charge ensures **slow, gradual absorption**, which gives Chelal® Kubig its very low toxicity potential. It’s completely soluble formula allows for a uniform distribution of **the applied copper over the whole leaf surface area of the sprayed field, creating a very fine film of copper on the leaves.**

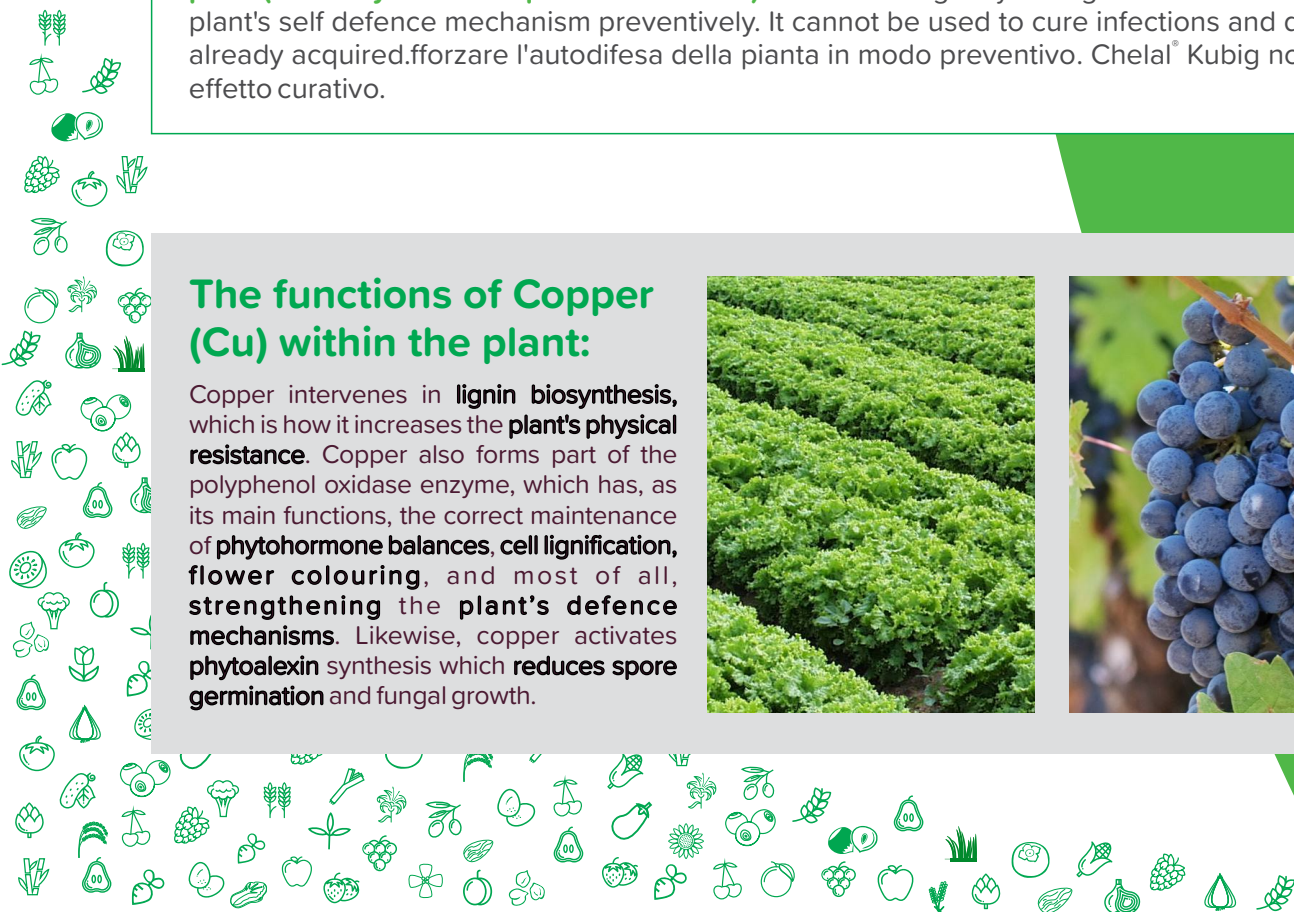
Although copper is essential for plants, it can also be toxic to plants as well as to bacteria and fungi. However, plants can tolerate higher levels of copper than less-developed life forms, such as bacteria and fungi. We can take advantage of this difference in tolerance: by maintaining the highest possible copper levels in the plant (and above all in the leaves) without risking toxicity problems, we create an unfavourable environment for pathogens and, thus, protect the plant in a completely natural way.

The copper-polyamine chelate in **Chelal® Kubig** enables copper to be **exchanged with, and integrated into, the SAR-proteins that protect the plant (SAR = Systemic Acquired Resistance).** Chelal® Kubig only strengthens the plant's self defence mechanism preventively. It cannot be used to cure infections and diseases already acquired. *fforzare l'autodifesa della pianta in modo preventivo. Chelal® Kubig non ha un effetto curativo.*



### The functions of Copper (Cu) within the plant:

Copper intervenes in **lignin biosynthesis**, which is how it increases the **plant's physical resistance**. Copper also forms part of the polyphenol oxidase enzyme, which has, as its main functions, the correct maintenance of **phytohormone balances, cell lignification, flower colouring**, and most of all, **strengthening the plant's defence mechanisms**. Likewise, copper activates **phytoalexin** synthesis which **reduces spore germination** and fungal growth.





# Applications

## Advantages

- Copper chelate especially developed for foliar applications.
- Completely liquid formulation: easy to use.
- Reduces the quantity of copper applied to the plants.
- The product not only assures the correct copper nutrition of the plant, but also activates the endogenous defence mechanism (SAR).
- Can be used together with most of the pesticides currently used in agriculture. This means a considerable saving in time and costs, because no extra treatment has to be done to apply Chelal® Kubig. Please verify our compatibility list on our website.



## Dosage and application:

**Chelal® Kubig** can be applied various times during the growth cycle of the crop. The recommended dosage varies between: 0,5 -1,5 L/ha

**Vegetable crops:** 1-2 treatments of 0,75-1 L/ha

**Grape Vines:** 2-4 treatments of 1-1,5 L/ha

**Fruit trees (apple, pear, olives, kiwi,...):** 2-4 treatments of 1-1,5 L/ha (do not apply on stone fruits from Prunus genus)

**Monocotyledons (cereals, corn, onions, sugar cane, garlic, lilies):** 1-3 treatments of 1-2 L/ha (apply during the first part of the growth cycle)



## COMPOSITION

### Chelal® Kubig:

FERTILISER FOR FOLIAR APPLICATIONS, NF U 42-003-2. Chelated Copper – liquid for foliar applications. Guaranteed Analysis (percentage by weight): Water-soluble Copper (Cu): 8.0 %, Copper (Cu): 8.0 % Chelating agents: TEPA, TETA and DETA. Chelating agent content: 8,0 % TEPA, 6,1 % TETA and 4,3 % DETA.

Chelal® Kubig is miscible with most of the commonly used pesticides and herbicides. Avoid mixing with oil-based products. It is advisable to conduct a miscibility test before application. In case of doubt, consult our technical service or consult the miscibility list on the homepage of our website: [www.chelal.com](http://www.chelal.com).

