

Librel[®] Cu

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Copper EDTA Chelate

Product Information

Product Type	Micronutrient fertiliser conforming to the definition of an "EC FERTILISER".
Description	Copper ethylenediamine tetra acetate disodium salt, (CuEDTA Na ₂).
Intended Use	<ul style="list-style-type: none">• To correct copper deficiency in most agricultural, horticultural and ornamental crops. Recommended for foliar or soil application.• As a micronutrient source in hydroponics, liquid feed solutions and soilless growing media.
Typical Analysis	Copper (as Cu) 14% w/w
Analytical Method	Available on request
Appearance	Blue spray agglomerated microgranule
PRD-No.	30482695
Solubility (in water)	~350 g/l (at 20 °C)
Specification	See separate document: "Standard Specification" available via BASF's WorldAccount: https://worldaccount.basf.com (registered access).
Packaging	Detailed information on the packaging is available via BASF's WorldAccount: https://www.worldaccount.basf.com (registered access).
Storage	Librel Cu will store indefinitely under normal conditions. For user convenience it is recommended that the product is stored in a dry place. Re-seal partly used packs tightly.
Transport Precautions	No special precautions are necessary for transport by air, sea, rail or road.
Harmonised Tariff No.	2922-4985-90
Health & Safety	Detailed information on the product described in this leaflet can be found in our relevant Health and Safety Information (Material Safety Data Sheet) available via BASF's WorldAccount: https://worldaccount.basf.com (registered access).

Directions for Use

General Information

Librel Cu gives best results when crops have adequate supplies of water and major nutrients and are not under stress for any other reason. Conditions that are responsible for one particular deficiency can also induce deficiencies of other micronutrients. Always ensure that deficiencies are confirmed before treatment is carried out.

Mixing With Water

Simply add the powder to water while it is being agitated, do not pre-mix. Continue agitation for a short while to ensure complete dissolution.

Compatibility

Librel Cu is compatible with all other Librel chelates and many crop care chemicals. It is also fully compatible with solutions containing soluble phosphates such as liquid feeds and foliar fertilisers.

Foliar Application

General Information

Librel Cu should be dissolved in a convenient volume of water to suit the spraying machine being used and the target crop leaf area. The following points should be observed.

1. The sprayer should be fitted with nozzles that produce a fine mist.
2. Only sufficient spray solution should be applied to coat the leaves and stems with a film of moisture with little or no "run off".
3. Spraying should be carried out on a calm day **but not during strong sunshine or high temperatures**. The best time is late afternoon or evening.
4. If rain is imminent, spraying should be postponed. If rain falls within 4 hours of spraying, the crop should be re-sprayed 3 or 4 days later.

Fruit Crops

Do not exceed a solution of 0.1% (1 g/l) for any one or combination of Librel chelates. Some fruit varieties and cultivars can exhibit unpredictable sensitivity to EDTA chelates. Where local experience of successful use is not available, we strongly recommend small-scale test applications before wide spread use.

Rates of Use and Timing

Crop	Rates of Use (kg/ha)	Timing
Winter cereals	0.25 – 0.75	Apply as soon as active growth recommences in early spring. An additional half rate application at the flag stage (ZCK 37 – 39) is also beneficial
Other crops	0.25 – 0.75	Apply as soon as there is sufficient leaf area to absorb the spray

Water Volume

The amount of Librel Cu to be applied should be mixed with a volume of water appropriate to the crop leaf area of the type of spraying machine being used.

Arable crops: 200-600 litres per hectare.

NB: Do not exceed a solution concentration of 0.1% (1 g/l).

Wetting Agent

Unless Librel Cu is to be applied with a pesticide containing sufficient wetter, then a standard, agricultural non-ionic wetting agent should be used as recommended by the manufacturer.

Small Scale Use

For example using a knapsack sprayer. Prepare a 0.05 – 0.1% (0.5 – 1.0 g/l) solution and apply so as to coat the leaves and stems with a thin film of moisture with little or no run-off.

Soil Application

General Information

The appropriate amount of Librel Cu should be dissolved in a convenient volume of water to suit the application equipment and to ensure even ground coverage.

General Crops

Apply as a coarse low pressure spray immediately before the last cultivation prior to sowing or planting. Where crops are established, apply between the rows.

Perennial Crops

Apply as a coarse low pressure spray in a wide circular band under the limit of the full branch spread. For best results, nutrients should be in the root zone before seasonal growth begins and this can be achieved by appropriate application timing.

Rates of Use

Apply 0.5 – 2.0 kg/ha depending on the degree of deficiency crop size etc.

Hydroponic Application**Rates of Use**

1 ppm (15.74 µmol/l) copper can be achieved by adding 7.15 g of Librel Cu per 1000 litres of solution.

Statutory Caution

To be used only where there is a recognised need. Do not exceed the appropriate dose rate.

Note

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