

# Librel<sup>®</sup> Zn

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**Zinc EDTA Chelate**

## Product Information

<b>Product Type</b>	Micronutrient fertiliser conforming to the definition of an "EC FERTILISER".
<b>Description</b>	Zinc ethylenediamine tetra acetate disodium salt, (ZnEDTA Na <sub>2</sub> )
<b>Intended Use</b>	<ul style="list-style-type: none"><li>• To correct zinc deficiency in most agricultural, horticultural and ornamental crops. Recommended for foliar or soil application.</li><li>• As a micronutrient source in hydroponics, liquid feed solutions and soilless growing media.</li></ul>
<b>Typical Analysis</b>	Zinc (as Zn) 14% w/w
<b>Analytical Method</b>	Available on request
<b>Appearance</b>	White spray agglomerated microgranule
<b>PRD-No.</b>	30483290
<b>Solubility (in water)</b>	~300 g/l (at 20 °C)
<b>Specification</b>	See separate document: "Standard Specification" available via BASF's WorldAccount: <a href="https://worldaccount.basf.com">https://worldaccount.basf.com</a> (registered access).
<b>Packaging</b>	Detailed information on the packaging is available via BASF's WorldAccount: <a href="https://www.worldaccount.basf.com">https://www.worldaccount.basf.com</a> (registered access).
<b>Storage</b>	Librel Zn 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.
<b>Transport Precautions</b>	No special precautions are necessary for transport by air, sea, rail or road.
<b>Harmonised Tariff No.</b>	2922-4985-90
<b>Health &amp; Safety</b>	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: <a href="https://worldaccount.basf.com">https://worldaccount.basf.com</a> (registered access).
<b>Directions for Use</b>	
<b>General Information</b>	Librel Zn 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
<b>Mixing With Water</b>	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.
<b>Compatibility</b>	Librel Zn 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 Zn 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

Crop	Rates of Use	
Field crops	Severe Deficiency	0.5 – 1.00 kg/ha
	Moderate Deficiency	0.25 – 0.50 kg/ha
Fruit crops	0.5 kg/ha (maximum concentration of 0.1%)	

### Water Volume

The amount of Librel Zn 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.

Fruit crops: 500 – 1000 litres per hectare.

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

### Wetting Agent

Unless Librel Zn 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 Zn 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 1.5 – 6.0 kg/ha depending on the degree of deficiency, crop size etc.

## Hydroponic Application

### Rates of Use

1 ppm (15.38 µmol/l) zinc can be achieved by adding 7.15 grams of Librel Zn 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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