
Technical Information

May 2010

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LibFer[®] SP

High Performance Iron EDDHA Chelate

Product Information

Product Type	Micronutrient fertiliser conforming to the definition of an "EC FERTILISER".						
Description	A soluble powder formulation of ferric ethylenediamine bis-(2-hydroxyphenyl acetate) (FeEDDHA).						
Intended Use	<ul style="list-style-type: none">• For the treatment of iron deficiency in crops and ornamentals growing in highly alkaline and calcareous soils.• As a micronutrient source in hydroponics, liquid feed solutions and soilless growing media.						
Typical Analysis	<table border="1"><tr><td>Water soluble iron (as Fe):</td><td>6.00% w/w</td></tr><tr><td>Iron chelated by EDDHA (as Fe):</td><td>5.70% w/w minimum</td></tr><tr><td>Iron chelated by 'o' - 'o' EDDHA (as Fe)</td><td>4.00% w/w</td></tr></table>	Water soluble iron (as Fe):	6.00% w/w	Iron chelated by EDDHA (as Fe):	5.70% w/w minimum	Iron chelated by 'o' - 'o' EDDHA (as Fe)	4.00% w/w
Water soluble iron (as Fe):	6.00% w/w						
Iron chelated by EDDHA (as Fe):	5.70% w/w minimum						
Iron chelated by 'o' - 'o' EDDHA (as Fe)	4.00% w/w						
Analytical Method	Available on request						
Appearance	Dark red/black spray agglomerated microgranule						
PRD-No.	30483218						
Solubility (in water)	~120 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	LibFer SP 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.	3105-9099-90						
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

LibFer SP gives best results when crops have adequate supplies of water and major nutrients and are not under stress for any other reason. Conditions which 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

The powder should be added slowly to the main bulk of the water while it is being agitated. Continue agitation for a short while to ensure complete dissolution.

Compatibility

LibFer SP is compatible with all Librel® chelates and solutions containing soluble phosphates.

Soil Application

General Information

The best way to add LibFer SP to the soil is to dissolve it in a convenient amount of water (e.g. 10 grams per litre) then apply as a coarse low pressure spray. If the soil is densely compacted, the surface should be broken up before application.

Applications should always be incorporated into the top few centimetres of soil as soon as possible after application. This can be done by harrowing or hoeing in, or by irrigation.

For deep-rooting trees and shrubs, LibFer SP solution may be applied to the root-feeding zone using a pressure injector.

LibFer SP may also be applied through irrigation systems by periodically adding the equivalent of 1.0 kg per hectare in 10,000 litres of water. Frequency of addition will depend on the degree of deficiency.

Rates of Use

Crop	Rates of Use
Field Crops	Apply 2.5 – 5.5 kg/ha just before sowing/ planting or when iron deficiency symptoms begin to appear
Citrus	Young Trees Apply 500 – 750 g per 100 m ² Mature Tree Apply 200 – 500 g per tree Annual Maintenance Apply 100 – 150 g per tree
Top Fruit	Apply 25 – 125 g per tree
Soft Fruit	Apply 750 – 1,500 g per 100 metres of row in a band or as a side dressing
Ornamental Shrubs	Apply 20 – 50 g per bush
Ornamental Plants	Apply 60 g per 10 m ²

These rates indicate upper and lower limits. Actual amounts used will depend upon the size of the crop and the degree of deficiency or both.

Hydroponic Application

Rates of Use

1 ppm (17.86 µmol/l) iron can be achieved by adding 17 g of LibFer SP per 1000 litres of solution.

Where stock tank is used, the above may be proportioned up by the appropriate dilution factor.

Statutory caution

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

Note

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