

Keylan^{Fe} LIQUID



CE




BioChelation™



THE REVOLUTION OF BIOCHELATION™

KEYLAN is the sustainable and greener choice that had so far been lacking in the chelated micronutrients sector.

KEYLAN is a complete range of products powered by BIOCHELATION™ technology, suitable to prevent and cure nutrient deficiency on a wide variety of crops.

The goal of the range is to supply micronutrients in a bio-chelated form in order to optimize their uptake, and at the same time, to boost plant metabolism thanks to the peptide action.

The biochelation™ action is performed by our Plant Stimulating Peptides (present in the vegetal protein hydrolysates - VPH) and its effectiveness is comparable to that of any standard synthetic chelate.

KEYLAN features high stability and biodegradability, it is efficient with a broad range of soil pH and it is fully metabolized by plants, leaving no residues in the crop or in the environment.

COMPOSITION

Iron (Fe) water soluble	4,5 % (58,5 g/L)
Organic nitrogen (N)	2 % (26 g/L)
VPH (vegetal protein hydrolysates)	40% (520 g/L)
pH (1:5)	3,9-4,5
Specific weight	1,30 kg/L

THE ADVANTAGES OF KEYLAN RANGE

- GREEN, SUSTAINABLE AND ENVIRONMENTALLY FRIENDLY
- BIOCHELATING AGENT 100 % OF VEGETAL ORIGIN
- Harmless to living organisms and respectful of biodiversity
- Fully metabolized by plants, leaves no residues in the environment or in the crops
- Optimal for plant use, derived from plants for plants
- Effectiveness comparable to synthetic chelation
- Efficient with a broad range of soil pH
- Lasting availability of the element inside the soil
- Booster of plant metabolism
- Improvement of nutrients uptake
- Great biostimulant action
- Fully watersoluble
- Not photosensible


Hello
NATURE®

THE BENEFITS OF KEYLAN Fe

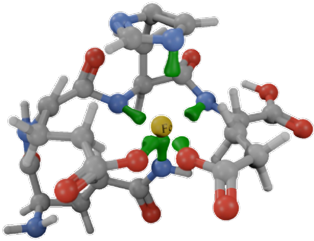
- Our peptides biochelate Iron in the ferrous form which is the one readily used by plants and easier to absorb; while synthetic chelate agents, like EDDHA, chelate Iron in the ferric form which requires further energy consumption to be assimilated by the plant.
- Compatible with phosphorous-based fertilizers

BIOCHELATION™: A REVOLUTIONARY CONCEPT



The concept of BIOCHELATION™, is based on the intrinsic ability of peptides to behave like synthetic chelates, to form different types of bonds with positively charged metal atoms:

- 1) The “Plant Stimulating Peptides”, present in the Vegetal Protein hydrolysates (VPH), contain a great number of potential atoms able to form strong bonds with the metal.
- 2) To these bonds, which guarantee the greater stability, is to be added the ability of some side chains of amino acids, forming our peptides, to bind the metal through different types of forces, which contribute to further increase the stability of the peptide-metal bond.



3) Thanks to these multiple interactions, the peptides take a 3D dimension, and they organize close to the metal, to form a fence around it and ensuring that the metal atom becomes part of a strong and biologically stable ring structure.

4) The resulting structure, called biochelat[™], improves the solubility and bioavailability of the element, which becomes readily available for plant uptake.

The exclusive production process completely managed by HELLO NATURE has been optimized in order to obtain a **good chelation effect**, while maintaining **the integrity of our Plant Stimulating Peptides**, preserving also their biostimulant activity.

KEYLAN Fe LIQUID USE & DOSE

KEYLAN is a range of products designed for the application through drip irrigation, soil injector or foliar. It is also suitable for crops grown in hydroponic conditions.

All dosages provided are in standard conditions, dosages and modes of application are to be determined on the basis of the requirements and the nutritional status of the crop.

Crops	Application (soil injector/ drip irrigation/ hydroponic conditions)	Dose
Potato, Tomato, Eggplant, Chili, Pepper, Asparagus, Onion, Garlic, Turnip, Carrot, Beet, Radish, Celery, Cabbage, Broccoli, Cauliflower, Cucumber, Zucchini, Pumpkin, Watermelon, Melon, small berries	First 30-40 days	2-5 L/ha
	Every week	5-7.5 L/ha
	Deficiency correction (chlorosis)	10-12 L/ha
Papaya, Banana, Cherry, Plum, Apricot, Peach, Walnut, Mango, Orange, Tangerine, Litchi, Kiwi, Cocoa	Dose per tree per application	25-50 mL/tree
	Suggested Annual Dose	25-50 L/ha
Avocado	Dose per tree per application	50 mL/tree
	Suggested Annual Dose	20 L/ha
Apple, Pear	Dose per tree per application	40-50 mL/tree
	Suggested Annual Dose	20 L/ha
Green leaves: Lettuce, Spinach, Chard, Parsley, Coriander, Aromatic species	First 30 days	2 - 5 L/ha
	Starting from 30 days, every 2 weeks	5-7.5 L/ha
Table grape, Vine, Coffee	After plantation until the first year of production, annual dose	25 L/ha
	Full production, annual dose	25-35 L/ha
Ornamentals and nurseries	Pot	2-5 mL/pot
	Soil	5-7.5 L/ha
Cotton, Bean, Corn, Wheat, Barley, Rice, Oats, Cotton Pea, Cane, Sunflower, Chickpea, Alfalfa, Canola, Soy	During crop cycle, 3 applications	2-5 L/ha

For foliar application dose please contact your HELLO NATURE Sales Rep.



PACKAGING

1 L, 5 L, 20 L and 1200 kg IBC



Suitable for organic farming according to EU Regulation 2018/848

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