



Liedarol

Crop Science

Together always evolving

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ledarol.com







Ledarol CropScience is the result of the research effort and analysis of the needs of today's agriculture. Ledarol recognizes the importance of sustainable interaction between man and natural resources and, in the same way, links the productive efficiency and harmonious development of the agro ecosystem, being this the main objective of our new line of agricultural products.

Ledarol CropScience formulates, manufactures and markets essential products for high performance agriculture, our products are oriented to solve a wide range of needs in diverse crops, from foliar products to products of use by irrigation system, all of them rigorously formulated and supported in a Dutch company of more than 97 years in the agricultural market and one of the leaders in sustainability and innovation, Van Iperen, which guarantees the quality of the inputs and efficiency of our products.

This catalog contains the detail of the first line of plant nutrition products of the family Ledarol CropScience. A team of professionals of great capacity guarantees the quality and high performance of each product, our greatest virtue is continuous evolution, our greatest desire is to grow together.



www.ledarol.com

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Technical Nutrition by Objectives:

Biostimulants

Soil - Root.



Ledamino



ledarol.com/ledamino

Ledamino is a powerful fertilizer and bionutrient obtained from a controlled enzymatic hydrolysis, using as raw material one of the best available sources of amino acids in the marine animal kingdom (salmon); achieving an optimal distribution and availability of the main amino acids for cultivation. This new generation of hydrolysates has been repotenciada to increase the amount of free amino acids maintaining a low molecular weight, guaranteeing a greater efficiency and speed of response in its assimilation by foliar and radicular route, allowing the plant to generate proteins and tissues with a significant energy saving, ideal for a crop subject to some kind of nutritional stress, saline, water, light, atmospheric pollutants, among others.



NUTRIENT CONTENT	% p/p
Total Nitrogen (N-total)	3,20
Assimilable phosphorus (P)	0,50
Potassium soluble (K)	0,40
Total amino acids	23,00
Free amino acids	14,50
Fulvic acids	12,00
Zinc (Zn)	0,60
Calcium (Ca)	0,50
Magnesium (Mg)	0,50
Iron (Fe), Copper (Cu)	Traces
Boron (B), Manganese (Mn)	Traces
Acidity index: 2 - Neutral -	
Surface tension: 43,4 Dyn/cm	
PH: 4.0 - 5.0	

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Ledamino Zn



ledarol.com/ledaminozn

It is a powerful biostimulant fertilizer, obtained from an enzymatic hydrolysis under controlled conditions and using as raw material one of the best available sources of amino acids, such as animal protein (salmon), repotenciando the load of total and free amino acids based on other additional sources, the result is a product with very high availability and quality of free amino acids for the plant, its low molecular weight guarantees a greater efficiency in its root assimilation, allowing the crop to generate proteins and tissues from the amino acids provided by Ledamino Zn, its high zinc content promotes the root development of the plant, besides generating an important energy saving.



NUTRIENT CONTENT	% p/p
Total Nitrogen (N-total)	3,20
Assimilable phosphorus (P)	0,50
Potassium soluble (K)	0,40
Total amino acids	25,20
Free amino acids	13,40
Fulvic acids	12,00
Zinc (Zn)	3,00
Calcium (Ca)	0,50
Magnesium (Mg)	0,50
Iron (Fe), Copper (Cu)	Traces
Boron (B), Manganese (Mn)	Traces
Acidity index: 2 - Neutral -	
Surface tension: 43,4 Dyn/cm	
PH: 4.0 - 5.0	

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1
Lt.
- 4
Lt.
- 22
Lt.
- 200
Lt.

Technical Nutrition by Objectives:

Foliar Biostimulants.





ledarol.com/ledafol

It is a powerful biostimulant and leaf bionutrient based on a rich source of available amino acids originated from animal protein (salmon). The result is a product with a high availability and quality of free amino acids for the plant, its low molecular weight guarantees a greater efficiency in its assimilation by foliar route, generating a significant energy saving. Ledafol is enriched with seaweed extract (*Ascophyllum nodosum*), allowing the crop to cope with the stress to which it is exposed.



NUTRIENT CONTENT	% p/p
Total organic matter	88.0%
Total amino acids	21%
Free amino acids	13%
Fulvic acids	1.3%
Seaweed Extract	6%
Nitrogen (N-Total)	4%
Zinc (Zn)	1550 mg/kg
Boron (B)	7.5 mg/kg
Iron (Fe)	370 mg/kg
pH (1gr/Lt to 20°C)	4 - 5
Density (g/L)	1.1
Electric conductivity (1gr/Lt to 20°C)	0.5 mmho/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1
Lt.
- 4
Lt.
- 22
Lt.
- 200
Lt.

Ledalgae



ledarol.com/ledalgae

It is a powerful biostimulant and vegetable activator that contains seaweed extract (*Ascophyllum nodosum*). The diverse and complex contribution of Ledalgae (phytohormones, amino acids, mannitol, alginates, among others) is maximized by crops, generating an increase in the development and production of the same, as well as a great variety of improvements in chemical and biological level. Ledalgae is boosted with a source rich in amino acids originated from animal protein (Salmon).



NUTRIENT CONTENT	% p/p
Seaweed extract	18%
Organic material	75%
Total amino acids	5.5%
Free amino acids	3.7%
Nitrogen (N-Total)	8.5%
phosphorus (P ₂ O ₅)	3%
Potassium (K ₂ O)	5%
Magnesium (Mg)	1%
Zinc (Zn)	1%
Boron (B)	0.5%
Phytohormones	70 ppm
pH (1gr/Lt to 20°C)	5 - 5.5
Density (g/L)	1.15
Electric conductivity (1gr/Lt to 20°C)	0.5 mmhos/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Technical Nutrition by Objectives:

Foliar Nutritional Correctors.



Ledafol ca



ledarol.com/ledafolca

It is a powerful biostimulant and calcium deficiency correcting bionutrient (Ca) containing 20% of the highest quality and fast absorption calcium chelate EDTA made in the Netherlands. Ledafol Ca is enriched with seaweed extract (*Ascophyllum nodosum*), allowing the crop to cope with the stress to which it is exposed, whether it is nutritional, saline, hydric, luminous, atmospheric pollutants, among others. Potentiated with a source rich in available amino acids originated from animal protein (Salmon) to maximize the assimilation of Ca.



NUTRIENT CONTENT	% p/p
Organic material	75%
Total amino acids	17%
Free amino acids	11%
Fulvic acids	0.9%
Seaweed Extract	6%
EDTA Ca	20%
Zinc (Zn)	1250 mg/kg
Boron (B)	6 - 4 mg/kg
pH (1gr/Lt to 20°C)	4 - 4.2
Density (g/L)	1.1
Electric conductivity (1gr/Lt to 20°C)	0.5 mmho/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Ledafol fe



ledarol.com/ledafolfe

It is a powerful biostimulant and bionutriente of deficiency of Fe that contains a 15% of EDTA of iron of the highest quality and fast absorption, elaborated in Holland. Ledafol Fe is enriched with seaweed extract (*Ascophyllum nodosum*), allowing the crop to cope with the stress to which it is exposed, whether it is nutritional, saline, hydric, luminous, atmospheric pollutants, among others. Potentiated with a source rich in available amino acids originated from animal protein (salmon) to maximize the assimilation of Fe chelate.



NUTRIENT CONTENT	% p/p
Organic material	75%
Total amino acids	18%
Free amino acids	11%
Fulvic acids	0.9%
Seaweed Extract	6%
EDTA Fe	15%
Zinc (Zn)	1450 mg/kg
Boron (B)	6 - 4 mg/kg
pH (1gr/Lt to 20°C)	4 - 4.2
Density (g/L)	1.1
Electric conductivity (1gr/Lt to 20°C)	0.5 mmho/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Ledafol mg



ledarol.com/ledafolmg

It is a powerful biostimulant and bionutrient corrector of Mg deficiency containing 17% of EDTA chelate of magnesium of the highest quality and fast absorption, made in the Netherlands. Ledafol Mg is enriched with seaweed extract (*Ascophyllum nodosum*), allowing the crop to cope with the stress to which it is exposed, whether it is nutritional, saline, hydric, luminous, atmospheric pollutants, among others. Powered with a source rich in available amino acids originated from animal protein (salmon) to maximize the assimilation of the Mg chelate.



NUTRIENT CONTENT	% p/p
Organic material	75%
Total amino acids	20%
Free amino acids	11%
Fulvic acids	0.9%
Seaweed Extract	6%
EDTA Mg	17%
Boron (B)	6-4 mg/kg
pH (1gr/Lt to 20°C)	4-4.2
Density (g/L)	1.1
Electric conductivity (1gr/Lt to 20°C)	0.5 mmho/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Ledafol mn



ledarol.com/ledafolmn

It is a powerful biostimulant and Mn deficiency correcting bionutrient containing 18% of the highest quality and fast absorption EDTA manganese chelate made in the Netherlands. Ledafol Mn is enriched with seaweed extract (*Ascophyllum nodosum*), allowing the crop to deal with the stress to which it is exposed, be it nutritional, saline, hydro, light, atmospheric pollutants, among others. It is further enhanced with a source rich in amino acids originated from animal protein (salmon) to maximize the assimilation of the Mn chelate.



NUTRIENT CONTENT	% p/p
Organic material	75%
Total amino acids	20%
Free amino acids	11%
Fulvic acids	0.9%
Seaweed Extract	6%
EDTA Mn	18%
Boron (B)	6-4 mg/kg
pH (1gr/Lt to 20°C)	4-4.2
Density (g/L)	1.1
Electric conductivity (1gr/Lt to 20°C)	0.5 mmhos/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1
Lt.
- 4
Lt.
- 22
Lt.
- 200
Lt.

Ledafol zn



ledarol.com/ledafolzn

It is a powerful biostimulant and Zn deficiency correcting bionutrient containing 17% of the highest quality and fast absorption zinc chelate EDTA made in the Netherlands. Ledafol Zn is enriched with seaweed extract (*Ascophyllum nodosum*), allowing the crop to cope with the stress to which it is exposed, whether it is nutritional, saline, hydric, luminous, atmospheric pollutants, among others. It is further enhanced with a source rich in amino acids originated from animal protein (salmon) to maximize the assimilation of the Zn chelate.



NUTRIENT CONTENT	% p/p
Total organic matter	75%
Total amino acids	18%
Free amino acids	11%
Fulvic acids	0.9%
Seaweed Extract	6%
EDTA Zn	17%
Boron (B)	6-4 mg/kg
pH (1gr/Lt to 20°C)	4-4.2
Density (g/L)	1.1
Electric conductivity (1gr/Lt to 20°C)	0.5 mmho/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Technical Nutrition by Objectives:

Bio Protectors.



Ledakito



ledarol.com/ledakito

Ledakito is a biostimulant / SAR elicitor based on two types of chitosan, polymer D-glucosamin and oligosaccharide, additionally enriched with a source rich in total and free high assimilation amino acids of marine origin (salmon); the positive effects on the crops are varied and of very high benefit, Ledakito stimulates the development of the root system strengthening it against stress conditions, stimulates the development of fungus flora in the soil, mediating in the positive balance of beneficial microorganisms, its main function is the one of elicitor SAR to induce the accumulation of phytoalexins and to reinforce the system of defense of the crop. Ledakito is a highly functional product and oriented to integrate two important factors of production, increase the potential of defenses and provide a nutritional contribution.



NUTRIENT CONTENT	% p/p
Chitosan	5%
Total amino acids	4%
Free amino acids	3.5%
pH (1gr/Lt to 20°C)	4 - 4.5
Density (g/L)	1.15
Electric conductivity (1gr/Lt to 20°C)	0.5

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Ledafens



ledarol.com/ledafens

Ledafens is a powerful biostimulant and SAR inducer, combining the action of 5 powerful products, marine animal amino acids (salmon), LPE (phospholipids), chitosan, phosphites and salicylic acid. This complex combination acts as a SAR inducer / elicitor (chitosan, phosphites, salicylic acid), placing phytopathogens at a disadvantage against the induced accumulation of phytoalexins, generates a significant energy saving for the culture based on the amino acids delivered and additionally the incorporation of phospholipids (LPE) helps to standardize the color of the fruit, as it improves the activity of the enzyme PAL (Phenylalanine ammonium lyase) responsible for the synthesis of anthocyanins, concentrating the harvest, increasing soluble solids, also reduces the rate of respiration and dehydration of the fruit, increasing its post-harvest life.



NUTRIENT CONTENT	% p/p
Dry material	75%
Total amino acids	11%
Free amino acids	7%
Salicylic acid	35 g/kg
Chitosan	2%
Potassium Phosphate	15%
LPE	5%
pH (1gr/Lt to 20°C)	5-6
Density (g/L)	1.15
Electric conductivity (1gr/Lt to 20°C)	0.5 mmhos/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Ledamino cu



ledarol.com/ledaminocu

It is a powerful biostimulant fertilizer, obtained from an enzymatic hydrolysis under controlled conditions, using as raw material one of the best available sources of amino acids such as animal protein (salmon), repotenciando the load of total and free amino acids based on other additional sources, the result is a product with very high availability and quality of free amino acids for the plant, its low molecular weight guarantees a greater efficiency in its root assimilation, allowing the plant to generate proteins and tissues from the amino acids provided by Ledamino Cu, generating a significant energy saving for a plant subject to some type of nutritional stress, saline, water, light, atmospheric pollutants, among others.



NUTRIENT CONTENT	% p/p
Total Nitrogen (N-total)	3,20
Assimilable phosphorus (P)	0,50
Potassium soluble (K)	0,40
Total amino acids	25,20
Free amino acids	13,40
Fulvic acids	12,00
Copper (Cu)	5,00
Calcium (Ca)	0,50
Magnesium (Mg)	0,50
Zinc (Zn)	0,60
Boron (B), Manganese (Mn)	Traces
Acidity index: 2 - Neutral -	
Surface tension: 43,4 Dyn/cm	
PH: 4.0 - 5.0	

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Ledafol cu



ledarol.com/ledafolcu

Ledafol Cu is a powerful biostimulant and bioprotector for crops, contains EDTA Copper chelate of the highest quality and efficiency developed in Holland and is enriched with seaweed extract (*Ascophyllum nodosum*) and amino acids of animal origin (salmon), this powerful combination allowing the crop to deal with the stress to which it is exposed, whether it is nutritional, saline, hydro, light, atmospheric pollutants, among others. Copper in this high-end fertilizer is available immediately to be harvested by the plant foliage, is formulated to correct copper deficiencies and to prevent fungal diseases. The most effective way to prevent fungal attacks, to correct Cu deficiency problems, to protect the productive stress culture, and to provide high assimilation bionutrients is through the use of Ledafol Cu.



NUTRIENT CONTENT	% p/p
Organic material	70%
Total amino acids	20%
Free amino acids	11%
Fulvic acids	0.9%
Seaweed Extract	6%
EDTA Cu	15%
Zinc (Zn)	1250 mg/kg
Boron (B)	5-4 mg/kg
pH (1gr/Lt to 20°C)	4-4.2
Density (g/L)	1.15
Electric conductivity (1gr/Lt to 20°C)	0.5 mmhos/cm

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

Technical Nutrition by Objectives:

Soil corrector.



Ledamico



ledarol.com/ledamico

It has 18% of humic acids obtained from Leonardite. It also contains potassium (K) and metabolic and physiological activators to obtain a maximum response. Ledamico is a high purity organic bioactivator that generates direct action in the soil and acts efficiently on plant metabolism, improving root and plant growth and development in general, increases the supply and release of potassium in the soil releasing the availability of other nutrients to benefit the plant. Ledamico is enriched with amino acids derived from animal protein (Salmon) in quantities available for the plant, its rhizosphere and microflora.



NUTRIENT CONTENT	% p/p
Ac. Humic	18%
Organic material	70%
Fulvic Acids	8%
Potassium	10%
pH (1gr/Lt a 20°C)	10- 11
Density (g/L)	1.15

Liquid Suspension
Use Fertirriego / Drench / Foliar

PRESENTATIONS OF:

- 1**
Lt.
- 4**
Lt.
- 22**
Lt.
- 200**
Lt.

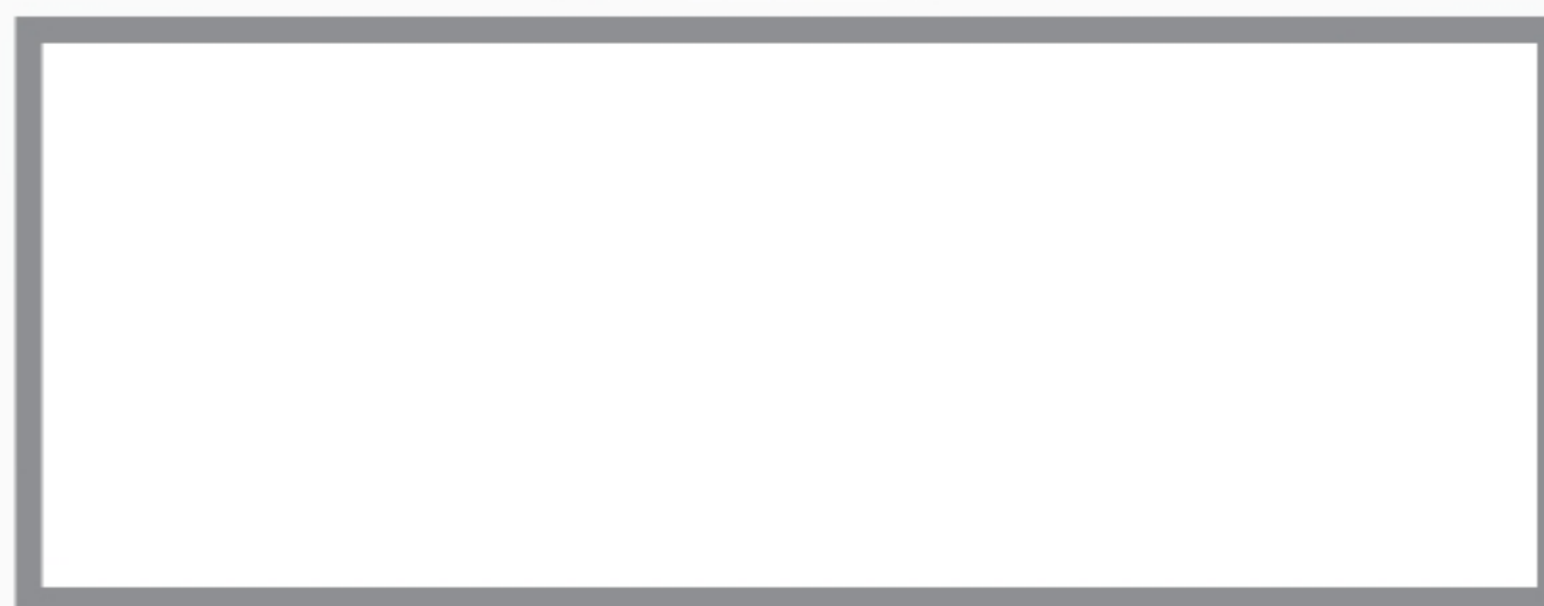
The logo for Lieldarol Crop Science is centered on a red background. The word "Lieldarol" is written in a bold, sans-serif font. The letters "i", "e", and "d" are white, while "l", "a", "r", "o", and "l" are black. The "i" and "e" have vertical lines extending from their stems. The "d" has a vertical line extending from its stem. The "l" has a vertical line extending from its stem. The "a", "r", "o", and "l" are solid black. Below "Lieldarol" is the text "Crop Science" in a smaller, white, sans-serif font.

Lieldarol
Crop Science



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