ecoorganic®

CATALOGUE OF FERTILIZERS

FOR FOLIAR NUTRITION

BORON FERTILIZERS

ECOLINE Boron *(Premium)*

Organic boron fertilizer with L-α-amino acids | **Density 1,34 pH 8,0**

Crops	Time of application	Dose rate, l/ha
Oilseed rape	Autumn (spring) 4 – 6 leaves	0,5 – 1,0
	Beginning of budding	1,0 – 1,5
Sunflower	3-8 pairs of leaves	1,0 – 2,0
	"star" phase	1,0
Soybeans	Beginning of budding	0,5 – 1,0
Corn	6-8 leaves	0,5 – 1,0
Fruits and berries	Pink bud	1,5 – 2,0
	Fruit formation	0,5 – 1,0
Vegetables	Before flowering – fruit formation	0,5 – 1,0
Grapes	Before flowering	1,0 – 1,5
	Before ripening	0,5 – 1,0
Sugar beets	Row closure	0,5 – 1,0
	Last fungicide treatment	1,0 – 1,5
Potatoes	Stem formation	0,5 – 1,0

Element		%
Nitrogen	$N\text{-}NH_2$	4,5
Boron	B	14,0
Amino acids	L-α	1,0

Liquid fertilizer in the form of organic boron complex with monoethanolamine and free L-α-amino acids for oilseed rape, sugar beets, sunflower, potatoes, grapes, fruit and vegetable crops. Active ingredients: Boron, amines of monoethanolamine and L-α-amino acids of plant origin. The fertilizer is effective under stress conditions of plants caused by unfavorable weather conditions. Boron is necessary for the normal formation of pollen and ovaries; it is involved in the transportation of sugars. Boron deficiency disrupts formation of cell walls, which deteriorates appearance of the fruits, reduces yield, fruit quality and shelf life.

ECOLINE Boron *(Organic)*

Organic boron fertilizer | **Density 1,37 pH 8,0**

Crops	Time of application	Dose rate, l/ha
Oilseed rape	Autumn (spring) 4 – 6 leaves	0,5 – 1,0
	Beginning of budding	1,0 – 1,5
Sunflower	3-8 pairs of leaves	1,0 – 2,0
Soybeans	Beginning of budding	0,5 – 1,0
Corn	6-8 leaves	0,5 – 1,0
Fruits and berries	Pink bud	1,5 – 2,0
	Fruit formation	0,5 – 1,0
Vegetables	Before flowering, fruit formation	0,5 – 1,0
Grapes	Before flowering	1,0 – 1,5
	Before ripening	0,5 – 1,0
Sugar beets	Row closure	0,5 – 1,0
	Last fungicide treatment	1,0 – 2,0

Element		%
Nitrogen	$N\text{-}NH_2$	6,5
Boron	B	15,5

Highly concentrated liquid boron micro-fertilizer. It is made to remove boron deficiency demonstrations, and for foliar nutrition of plants, especially demanding for Boron provision. It contains Boron as an organic complex with monoethanolamine. The fertilizer can be used together with plant protection products. It provides for stress and cold resistance of the plants.

ECOLINE Boron *(Opti)*

Organic boron fertilizer | **Density 1,2 pH 8,0**

Crops	Time of application	Dose rate, l/ha
Winter oilseed rape	6 leaves – rosette (autumn)	1,0 – 1,5
Legumes	Budding – pods formation	1,0
Corn	6-8 leaves - tasseling	1,0 – 2,0
Sugar beets	3 – 4 pairs of leaves – crop cover	1,5 – 2,5
Sunflower	4 – 6 pairs of leaves – "star" phase	1,0 – 2,0
Potatoes	Stem formation - flowering	1,5 – 2,0
Vegetables	From rooting of seedlings till the beginning of ripening	2,0 – 3,0
Fruits	Beginning of fruit formation - ripening	1,0 – 1,5
Berries	Beginning of fruit formation - ripening	1,0 – 1,5

Element		%
Nitrogen	$N\text{-}NH_2$	3,5
Boron	B	8,0
Zinc	Zn	0,5
Molybdenum	Mo	0,05

Liquid fertilizer in the form of organic Boron complex with monoethanolamine, with added Zinc chelate and Molybdenum. It is recommended for the crops which are sensitive to Boron, Zinc and Molybdenum deficiency in the first part of their vegetation, namely oilseed rape, sugar beets, sunflower, potatoes, grapes, fruits, vegetables, berries.

Boron takes part in sugars transportation, protects auxins from before time degradation, is needed for normal pollen and ovary formation. Zinc promotes auxin synthesis in the plant, hence provides for more intensive growth and plant moisture saving. Molybdenum takes part in sugars synthesis and activates nitrite and nitrate reductase, which intensifies nitrogen assimilation by the plant.

PHOSPHITE FERTILIZERS

ECOLINE Phosphite *(K)*

Phosphite fertilizer | **Density 1,50 pH 6,5**

Crops	Time of application	Dose rate, l/ha
Cereals, legumes, corn, sunflower	Pre-sowing seed treatment	0,5 – 1,0 l/t
Winter cereals	Tillering (autumn and spring)	1,0 – 2,0
	Tube exit	0,8 – 2,0
Legumes	Pods formation, ripening	1,5
Winter oilseed rape	4 - 6 leaves (autumn)	1,0 – 1,5
	8 – 12 leaves (spring)	1,0 – 2,0
Spring oilseed rape	4 - 6 leaves	1,0 – 1,5
Potatoes	Budding – beginning of flowering	1,0 – 2,0
Tomatoes, paprika	Beginning of fruit formation	2,0
Malt barley	Ear formation	0,5 – 2,0
Sunflower	6 - 8 pairs of leaves	1,0 – 1,5
	Seeds formation	1,0 – 2,0
Corn	3 – 5 leaves	1,0 – 1,5
	6 – 9 leaves	1,0 – 1,5
Grapes	Before flowering	1,0 – 2,0
Fruits and berries	Beginning of fruit formation	1,0 – 2,0
	After harvesting	2,0 – 4,0

Element		%
Nitrogen	$N\text{-}NH_2$	0,6
Phosphorus (phosphite)	P_2O_5	53,0
Potassium	K_2O	35,0
Boron	B	1,4

Innovative fertilizer with the highest phosphorus (in the form of phosphite) and potassium concentration. It can be used for foliar nutrition of many crops. It enhances the growth of the root system, increases the resistance of plants to fungal pathogens. The fertilizer increases the content of spare nutrient substances in the fruits, which improves their quality. The high content of phosphorus in the phosphite form significantly inhibits the development of fungal diseases of plants, including late blight, powdery mildew, anthracnose and others. The micro fertilizer is suitable for use together with plant protection products, provides resistance of plants to stresses.

ECOLINE Phosphite *(K-Zn)*

Phosphite fertilizer | **Density 1,40 pH 6,0**

Crops	Time of application	Dose rate, l/ha
Sunflower	2 – 5 pairs of leaves	1,0 – 2,0
	6 – 8 pairs of leaves	1,0 – 2,0
Peas, soybeans	2 – 3 true leaves	1,0 – 2,0
	Budding	1,0 – 2,0
Corn	3 – 5 leaves	1,0 – 2,0
	6 –8 leaves	1,0 – 2,0
Tomatoes, paprika	Beginning of fruit formation	1,5 – 3,0
Grapes	Before flowering	1,0 – 2,0
Fruits and berries	Beginning of fruit formation	1,0 – 2,0

Element		%
Phosphorus (phosphite)	P_2O_5	32,0
Potassium	K_2O	21,0
Boron	B	0,8
Zinc	Zn	3,5

Liquid innovative fertilizer in the form of organo-mineral complex of potassium phosphite with organic boron complex and zinc chelate. It is used to enhance the growth of the root system, improve drought resistance, synthesis of the enzyme carbohydrase, without which full synthesis of growth substances (auxins and cytokinins) is impossible. It enhances plants resistance to fungal pathogens and increases the content of spare substances in the commodity part of the yield, thus improving its quality.

GROS Phosphite-NP

Phosphite fertilizer | **Density 1,43 pH 5,0**

Crops	Time of application	Dose rate, l/ha
Winter and spring cereals	From 2-4 leaves till tube exit	1,5 – 2,0
Corn	6 - 8 leaves - tasseling	2,0
Winter and spring oilseed rape	4 leaves - rosette	1,5 – 2,0
Legumes	2 - 3 true leaves	1,0 – 2,0
Sunflower	4 - 8 pairs of leaves, "star" phase	2,0
Sugar beets	Row closure	2,0
Cabbage	After rooting of seedlings	2,0
Potatoes	Stem formation	1,5 – 2,0

Element		%
Nitrogen	$N\text{-}NH_2$	30,0
Phosphorus (phosphite)	P_2O_5	60,0

Unique liquid fertilizer with the highest concentration of phosphorus in the form of phosphite and nitrogen. The phosphite form promotes rapid entry of phosphorus into the plant and its movement in the plant itself. The fertilizer provides activation of root system growth and increases plant immunity to adverse weather conditions and pathogens of fungal diseases of the class Oomycetes. High nitrogen content in easily available form enhances plant growth. The fertilizer is recommended for early stages of growth.

GROS Phosphite-LNPK*

Phosphite fertilizer with L-α-amino acids | **Density 1,28 pH 6,5**

Crops	Time of application	Dose rate, l/ha
Winter and spring cereals	From 2-4 leaves till tube exit	1,5 – 3,0
Corn	6 - 8 leaves	2,0 – 3,0
Winter and spring oilseed rape	4 leaves - rosette	1,5 – 2,5
Legumes	2 - 3 true leaves	1,0 – 2,0
Sunflower	4 - 8 pairs of leaves	2,0 – 3,0
Sugar beets	Row closure	2,0 – 3,0
Vegetables	Active vegetative mass growth	1,0 – 3,0

Element		%
Nitrogen	$N\text{-}NH_2$	20,0
Phosphorus (phosphite)	P_2O_5	20,0
Potassium	K_2O	15,0
Amino acids	L-α	2,0

Liquid complex fertilizer containing macronutrients and amino acids. All phosphorus in the fertilizer is in the form of phosphite. It provides for enhancement of growth processes and immunity of plants.

The presence of amino acids in the fertilizer helps to overcome the stress of plants caused by natural factors or pesticides. Phosphorus in the form of phosphite strengthens the protective mechanisms of plants, which increases their resistance to fungal pathogens. Potassium and nitrogen stimulate growth processes. The fertilizer is intended for foliar nutrition of crops during the period of intensive growth.

ANTISTRESS

ECOLINE Phosphite *(K-Amino)*

Phosphite fertilizer with L-α-amino acids | **Density 1,30 pH 6,0**

Crops	Time of application	Dose rate, l/ha
Winter cereals	Autumn tillering	1,0 – 2,0
	Spring tillering	1,0 – 2,0
	Tube exit	1,0 – 2,0
Barley	Tillering	1,0 – 1,5
	Ear formation	1,0 – 2,0
Sunflower	3 – 5, 6 – 8 pairs of leaves, "star" phase	1,0 – 2,0
Peas, soybeans	2 – 3 true leaves	1,0 – 2,0
Corn	3 – 5 leaves	1,0 – 2,0
	6 – 9 leaves	1,0 – 2,0
Potatoes	Budding – beginning of flowering	1,0 – 2,0
Tomatoes, paprika	Beginning of fruit formation	1,5 – 3,0
Grapes	After 5 – 8 leaves	1,0 – 2,0
Fruits and berries	Beginning of fruit formation	1,0 – 2,0
Sugar beets	30 - 40 days before harvesting	1,0 – 2,0

Element		%
Nitrogen	$N\text{-}NH_2$	4,0
Phosphorus (phosphite)	P_2O_5	25,0
Potassium	K_2O	17,0
Boron	B	0,7
Amino acids	L-α	7,0

Special fertilizer for foliar fertilization of crops with fungicide effect and anti-stress properties.

Active ingredients of the fertilizer:

- Phosphorus in the form of phosphite - increases resistance to pathogens;
- Potassium, boron, free L-α-amino acids of plant origin - are quickly absorbed, easily incorporated into the biochemical cycle in cells, save plants energy and effectively remove them from stress.

ECOLINE Universal Growth *(Amino)*

Complex chelates with L-α-amino acids | **Density 1,20 pH 6,5**

Crops	Time of application	Dose rate, l/ha
Winter cereals	Tillering (autumn, spring), tube exit	0,5 – 1,0
Barley	Tillering	0,5 – 1,5
Sunflower	6 – 8 pairs of leaves	1,0 – 2,0
Peas, soybeans	2 – 3 true leaves	1,0 – 1,5
Corn	4 – 6 leaves	1,0 – 2,0
Potatoes	Stem formation – beginning of flowering	1,0 – 2,0
Cabbage	During vegetation	2,0 – 4,0
Cucumbers	During vegetation	2,0 – 4,0
Tomatoes, paprika	After seedlings planting till the beginning of fruit formation	1,5 – 3,0

Element		%
Nitrogen	$N\text{-}NH_2$	9,0
Potassium	K_2O	4,0
Magnesium	MgO	1,5
Ferum	Fe	0,2
Manganese	Mn	0,2
Zinc	Zn	0,4
Boron	B	0,2
Copper	Cu	0,1
Molybdenum	Mo	0,05
Amino acids	L-α	7,5

Special fertilizer for foliar nutrition with anti-stress properties. Active ingredients: easily available macro- and micronutrients, as well as free L-α-amino acids of plant origin, which can be quickly uptaken and included into the biochemical cycle in cells.

GROS Amino-Zn

Fertilizer with L-α-amino acids | **Density 1,15 pH 6,5**

Crops	Time of application	Dose rate, l/ha
Corn	4 – 6 leaves	0,5 – 1,0
Millet, sorghum	Beginning of tillering	0,5 – 1,0
Legumes	Before flowering	1,0
Sunflower	6 – 8 pairs of leaves	1,0
Winter cereals	Tillering – tube exit	0,5 – 1,0
Fruits	"Hazelnut" fruit size	1,0
Vegetables	Beginning of fruit formation	1,0

Element		%
Nitrogen	$N\text{-}NH_2$	2,5
Zinc (chelate EDTA)	Zn	2,0
Amino acids	L-α	10,0

The fertilizer is intended for foliar nutrition of crops which are sensitive to zinc deficiency. Zinc is actively involved in redox processes, in the biosynthesis of growth stimulants, it activates the synthesis of enzymes. The combination with amino acids improves the absorption of zinc by plants and eliminates stress.

GROS Health

Fertilizer with L-α-amino acids | **Density 1,1 pH 6,0**

Crops	Time of application	Dose rate, l/ha
Winter cereals	Tillering, flag leave appearance	1,0 – 1,5
Winter and spring oilseed rape	From 4 leaves till stem formation	1,0 – 1,5
Legumes	Pods formation	1,0
Sunflower	4 – 8 pairs of leaves, "star" phase	1,0 – 2,0
Corn	4 – 8 leaves - tasseling	1,0 – 2,0
Sugar beets	From 2 – 4 leaves till row closure	1,0 – 2,0

Element		%
Nitrogen	$N\text{-}NH_2$	2,7
Amino acids	L-α	12,0

Liquid anti-stress fertilizer. It has high content of amino acids to activate biochemical processes in plants, improve plants immune system and their resistance to unfavorable weather conditions or negative crop protection products impact.

FERTILIZERS WITH L-α-AMINO ACIDS AND PHYTOHORMONES

GROS Rootgrowth

Fertilizer for seed treatment | **Density 1,09 pH 6,0**

Crops	Time of application	Dose rate, l/ha
Winter cereals, legumes, corn, sunflower	Pre-sowing seed treatment	1,0 – 1,5 l/t
Potatoes	Pre-sowing seed treatment	0,5 – 2,0 l/t
Vegetables	One week after planting the seedlings, 2-4 true leaves	1,0 – 1,5
Roots treatment before planting		Concentration 0,03%

Element		%
Nitrogen	$N\text{-}NH_2$	3,0
Phosphorus (phosphite)	P_2O_5	5,0
Potassium	K_2O	3,0
Amino acids	L-α	3,0
Phytohormones		22,0 ppm

Liquid fertilizer which stimulates growth of the root system of plants. Phosphorus in the form of phosphite and phytohormones provide active growth of the root system. It is recommended for pre-sowing seed treatment, treatment of seedling roots of vegetable and ornamental crops, trees and shrubs before planting, as well as treatment of planted seedlings to improve rooting. Suitable for use as an anti-stress agent on corn and sunflower affected by soil herbicides.

GROS Quitselium

Fertilizer with phytohormones and L-α-amino acids | **Density 1,16 pH 7,5**

Crops	Time of application	Dose rate, l/ha
Sunflower	"Star" phase	0,5 – 1,0
Oilseed rape	Budding	1,0 – 1,5
Legumes	Budding	0,5 – 1,0
Vegetables	Before flowering - ripening	1,0 – 1,5
Fruits and berries	Before flowering - ripening	1,0 – 2,0
Grapes	Before flowering - ripening	0,1% solution
Ornamentals	Before flowering	1,5 – 2,0

Element		%
Ferum	Fe	2,4
Manganese	Mn	0,6
Zinc	Zn	0,6
Copper	Cu	0,6
Boron	B	0,24
Molybdenum	Mo	0,02
Amino acids	L-α	2,0
Phytohormones		60,0 ppm

This liquid fertilizer and stimulant is made for foliar nutrition of various crops. It contains trace elements, amino acids and phytohormones. It stimulates the processes of flowering and pollination, increases the number of fruits and their size. It is used in field crops, in vegetables and horticulture, as well as in the technology of ornamental plants growing.

GROS Amino-Mg

Fertilizer with L-α-amino acids | **Density 1,30 pH 6,0**

Crops	Time of application	Dose rate, l/ha
Cereals	Tillering, flag leaf appearance	1,0
Winter oilseed rape	4 – 6 leaves - rosette	1,0 – 1,5
Sugar beets	One month before harvesting	1,5 – 2,0
Legumes	2 – 3 true leaves	1,0 – 2,0
Sunflower	4 – 8 pairs of leaves, "star" phase	2,0
Corn	4 leaves - tasseling	1,5 – 2,0
Vegetables	Rooting of seedlings – beginning of ripening	1,0 – 2,0

Element		%
Magnesium	MgO	12,0
Nitrogen	$N\text{-}NH_2$	9,0
Amino acids	L-α	8,0

Liquid fertilizer containing magnesium and L-α-amino acids. Magnesium is involved in many processes in the plant, activates more than 300 enzymes due to specific binding to complexes, has a positive effect on the transfer and absorption of phosphorus in plants. The combination of magnesium with amino acids enhances photosynthesis and the outflow of sugars from the green parts of the plant to the roots and the commodity part of the crop.

GROS Silicon*

Fertilizer with L-α-amino acids | **Density 1,26 pH 10,5**

Crops	Time of application	Dose rate, l/ha
Cereals	Tillering – ear formation	1,5 – 2,0
Oilseed rape	Rosette - budding	1,5 – 2,0
Legumes	Budding – grain formation in the pods	1,5 – 2,0
Sunflower	6–8 pairs of leaves, "star" phase	1,5 – 2,0
Corn	6–8 leaves – tasseling	2,5 – 3,0
Vegetables	From seedlings rooting till the beginning of ripening	2,0 – 3,0
Fruits	After physiological ovary shedding till fruit ripening	1,5 – 2,0

Element		%
Potassium	K_2O	12,0
Silicon	SiO_2	24,0
Amino acids	L-α	2,0

Liquid organic and mineral fertilizer with silicon, potassium and amino acids. Silicon is an auxiliary nutrient in plant nutrition. In a plant it binds into a silicate-galactose complex, thus it makes influence on metabolism, strengthens cell walls, normalizes the flow and distribution of manganese, eliminating its possible toxic effect.

MONOCHELATES

ECOLINE Zinc *(Chelate)*

100% chelate fertilizer | **Density 1,30 pH 7,0**

Crops	Time of application	Dose rate, l/ha
Corn	3 – 5 leaves	0,5 – 1,0
Millet, sorghum	Beginning of tillering	0,5 – 1,0
Legumes	3-5 true leaves	0,5 – 1,0
Sunflower	6 – 8 pairs of leaves	1,0
Winter cereals	Autumn tillering	0,3 – 0,5
Kernel fruits	After the first ovary shedding	0,5 – 1,0
Vegetables (tomatoes, paprika)	Beginning of fruit formation	0,5 – 1,5

Element		%
Nitrogen	$N\text{-}NH_2$	3,6
Zinc	Zn	8,5

Highly concentrated chelate zinc microfertilizer, designed to eliminate the manifestation of zinc deficiency for foliar nutrition of crops, especially demanding for zinc supply conditions (corn, soybeans, sorghum). Suitable for use with plant protection products. Provides resistance to stress and drought resistance of plants.

ECOLINE Calcium-Boron *(Chelates)*

100% chelate fertilizer | **Density 1,20 pH 7,5**

Crops	Time of application	Dose rate, l/ha
Fruits	From the beginning of fruit formation till the beginning of ripening	3,0 – 4,0
Vegetables	From the beginning of fruit formation till the beginning of ripening	3,0 – 4,0
Berries	From the beginning of fruit formation till the beginning of ripening	2,0 – 3,0

Element		%
Nitrogen	$N\text{-}NH_2$	2,5
Calcium	CaO	5,0
Boron	B	0,8

Combined concentrated fertilizer for elimination of manifestation of calcium and boron deficiency. Improves the quality of the crop and its transportability. Prevents the manifestation of physiological diseases.

ECOLINE Copper *(Chelate)*

100% chelate fertilizer | **Density 1,29 pH 7,0**

Crops	Time of application	Dose rate, l/ha
Winter cereals	Start of tube exit – ear formation	0,5 – 1,0
Spring cereals	Start of tube exit	0,5 – 1,0
Potatoes	Before flowering	1,0
Sugar beets	Row closure	1,0 – 1,5
Sunflower	6 – 8 pairs of leaves	1,0
Kernel fruits	Fruit formation	0,5 – 1,0
Stone fruits	Beginning of fruit formation	0,5 – 1,0
	After harvesting	2,0 – 2,5

Element		%
Copper	Cu	6,5
Nitrogen	$N\text{-}NH_2$	3,0
Sulfur	SO_3	8,0

The fertilizer is designed to eliminate the manifestation of copper deficiency and foliar fertilization of copper demanding crops, especially on soils of light granulometric composition, drained peat soils. Copper increases protein content in cereals and legumes, increases sugar content in roots and vitamin C in fruits.

ECOLINE Manganese *(Chelate)*

100% chelate fertilizer | **Density 1,30 pH 7,0**

Crops	Time of application	Dose rate, l/ha
Winter cereals	Tillering (autumn and spring)	0,5 – 1,5
Winter oilseed rape	Stem formation (spring)	0,5 – 1,5
Spring oilseed rape	Stem formation	0,5 – 1,0
Soybeans	Budding	0,5 – 1,0
Sugar beets	Row closure	1,0 – 2,0
Corn	8 – 10 leaves	1,0 – 1,5
Potatoes	Beginning of budding	1,0 – 2,0
Vegetables	Beginning of fruit formation	1,5 – 2,0
Fruits	Beginning of fruit formation	1,5 – 2,0

Element		%
Nitrogen	$N\text{-}NH_2$	3,0
Manganese	Mn	6,0

Highly concentrated manganese fertilizer to eliminate the manifestation of manganese deficiency, for foliar nutrition of manganese demanding crops (deficiency of which is often observed on black soils and sod-carbonate soils with a neutral or alkaline reaction).

ECOLINE Iron *(Chelate)**

100% chelate fertilizer | **Density 1,20 pH 6,5**

Crops	Time of application	Dose rate, l/ha
Corn	8 – 12 leaves	0,5 – 1,0
Sunflower	6 – 8 pairs of leaves	1,0 – 1,5
Sugar beets	Row closure	1,0 – 2,0
Soybeans	Beans formation	0,5 – 1,0
Winter oilseed rape	Stem formation	1,0 – 1,5
Fruits and berries	Fruit formation	0,5 – 1,5
Vegetables	Fruit formation	0,5 – 1,0
Grapes	Beginning of fruit formation	1,5 – 2,0

Element		%
Nitrogen	$N\text{-}NH_2$	3,0
Ferum	Fe	6,0

This highly concentrated chelate fertilizer is designed for elimination of manifestation of iron deficiency and for foliar nutrition of iron demanding crops.

COMPLEX CHELATES

ECOLINE Magnesium *(Chelates)*

100% chelate fertilizer | **Density 1,20 pH 7,5**

Crops	Time of application	Dose rate, l/ha
Cereals	Tillering – tube exit	1,0 – 4,0
Corn	6 – 8 leaves	1,5 – 2,5
Sugar beets	Row closure	1,5 – 2,5
Vegetables	During active growth	1,5 – 3,0
Potatoes	Stem formation	1,0 – 2,0
Winter and spring oilseed rape	Budding	1,5 – 2,0
Melons	4 - 6 true leaves	1,0 – 1,5
Fruits	Beginning of fruit formation	2,0 – 3,0

Element		%
Nitrogen	$N\text{-}NH_2$	3,5
Magnesium	MgO	4,7
Sulfur	SO_3	4,0
Ferum	Fe	0,46
Manganese	Mn	0,23
Boron	B	0,23
Zinc	Zn	0,35
Copper	Cu	0,12

Concentrated complex fertilizer to improve the root system, conversion and absorption of phosphorus, increase the concentration of sugars at the point of growth.

ECOLINE Cereal *(Chelates)*

100% chelate fertilizer | **Density 1,30 pH 6,5**

Crops	Time of application	Dose rate, l/ha
Winter cereals	Seed treatment	0,5 – 1,0 l/t
	Beginning of tube exit	1,5 – 2,0
	Ear formation	1,0 – 1,5
	Beginning of grains formation	2,0
Spring cereals	Seed treatment	0,5 – 1,0 l/t
	Tube exit – ear formation	1,0 – 2,0

Complex concentrated microfertilizer for foliar nutrition of cereals: wheat, rye, triticale, oats, barley.

Element		%
Nitrogen	$N\text{-}NH_2$	19,5
Potassium	K_2O	6,0
Magnesium	MgO	3,5
Sulfur	SO_3	5,2
Ferum	Fe	0,5
Manganese	Mn	1,7
Boron	B	0,15
Zinc	Zn	0,4
Copper	Cu	1,0

ECOLINE Legumes *(Chelates)*

100% chelate fertilizer | **Density 1,20 pH 6,5**

Crops	Time of application	Dose rate, l/ha
Peas	Budding – beans formation	1,5 – 2,0
Soybeans	Budding – beans formation	1,5 – 2,0
Lupines	Budding – beans formation	1,0 – 1,5
Other legumes	Budding – beans formation	1,0 – 2,0

Complex concentrated fertilizer with macro and microelements (including molybdenum) for foliar nutrition of legumes during critical periods of their development.

Element		%
Nitrogen	$N\text{-}NH_2$	11,0
Potassium	K_2O	10,0
Magnesium	MgO	2,8
Sulfur	SO_3	4,2
Ferum	Fe	0,56
Manganese	Mn	0,84
Boron	B	0,32
Zinc	Zn	0,14
Copper	Cu	0,28
Molybdenum	Mo	0,05
Cobalt	Co	0,05

*The fertilizer is available by prior arrangement. For detailed information, please contact the distributors or regional representatives of ECOORGANIC LLC

ECOLINE Oilseed *(Chelates)*

100% chelate fertilizer

Density 1,30
pH 6,5

Crops	Time of application	Dose rate, l/ha
Winter and spring oilseed rape	Budding	2,0 – 3,0
Sunflower	Flower formation	1,5 – 2,0
Safflower	Before flowering	1,0 – 1,5

Complex concentrated fertilizer for foliar nutrition of oilseed crops. It increases the resistance of plants to drought, ensures normal growth and development of crops, improves yield quality.

Element		%
Nitrogen	$N\text{-}NH_2$	11,0
Potassium	K_2O	6,0
Magnesium	MgO	2,8
Sulfur	SO_3	7,0
Ferum	Fe	0,8
Manganese	Mn	1,7
Boron	B	2,1
Zinc	Zn	0,7
Copper	Cu	0,3

ECOLINE Corn *(Chelates)*

100% chelate fertilizer

Density 1,30
pH 6,5

Crops	Time of application	Dose rate, l/ha
Corn	3 – 5 leaves	1,0 – 1,5
	8 – 10 leaves	1,5 – 2,0
Sorghum, mogar	Tillering – beginning of tasseling	1,5 – 2,0
Millet	Tillering – beginning of tasseling	1,5 – 2,0

Complex concentrated fertilizer for foliar nutrition of corn, millet, sorghum, mogar, which meets the requirements of these crops for zinc supply. It increases stress resistance of the crops.

Element		%
Nitrogen	$N\text{-}NH_2$	16,0
Potassium	K_2O	10,6
Magnesium	MgO	2,5
Sulfur	SO_3	5,4
Ferum	Fe	0,8
Manganese	Mn	0,8
Boron	B	0,4
Zinc	Zn	2,0
Copper	Cu	0,8

ECOLINE Beetroot *(Chelates)**

100% chelate fertilizer

Density 1,30
pH 6,5

Crops	Time of application	Dose rate, l/ha
Sugar beets	Row closure	1,5 – 2,0
	The last fungicide treatment	1,5 – 2,0
Fodder beets	Row closure	2,0 – 3,0
Table beets	Row closure	2,0 – 3,0

Complex concentrated fertilizer for sugar, fodder, table beets. It improves the work of the root system, helps prevent physiological diseases of beets, increases sugar content in the roots.

Element		%
Nitrogen	$N\text{-}NH_2$	8,0
Potassium	K_2O	8,0
Magnesium	MgO	2,8
Ferum	Fe	0,8
Manganese	Mn	2,1
Boron	B	2,1
Zinc	Zn	0,7
Copper	Cu	0,28
Cobalt	Co	0,05

ECOLINE Vegetable *(Chelates)**

100% chelate fertilizer

Density 1,30
pH 7,5

Crops	Time of application	Dose rate, l/ha
Cucumbers, zucchini, squash	Before flowering	1,5 – 2,0
Tomatoes, paprika	Beginning of fruit formation	1,5 – 2,0
Cabbage	Beginning of heading	2,0 – 3,0
	Maturation	1,0 – 2,0
Carrot	Beginning of root formation	2,0 – 3,0
Onion, garlic	Beginning of bulb formation	2,0 – 3,0

Complex concentrated microfertilizer, designed for foliar nutrition of vegetable crops in order to increase yield and improve its quality.

Element		%
Nitrogen	$N\text{-}NH_2$	9,0
Potassium	K_2O	7,0
Calcium	CaO	3,5
Magnesium	MgO	2,5
Sulfur	SO_3	3,0
Ferum	Fe	0,9
Manganese	Mn	1,5
Boron	B	0,9
Zinc	Zn	0,15
Copper	Cu	0,8
Molybdenum	Mo	0,02

ECOLINE Fruit *(Chelates)**

100% chelate fertilizer

Density 1,30
pH 7,5

Crops	Time of application	Dose rate, l/ha
Kernel fruits (apple, pear)	Beginning of fruit formation – beginning of ripening (2-3 treatments)	1,0 – 2,0
Stone fruits (cherry, apricot, peach)	Beginning of fruit formation – beginning of ripening (2-3 treatments)	1,0 – 1,5
Berries	After flowering (2 treatments)	1,0 – 1,5

Complex concentrated microfertilizer, designed for foliar nutrition of fruits and berries.

Element		%
Nitrogen	$N\text{-}NH_2$	7,2
Potassium	K_2O	9,0
Calcium	CaO	2,4
Magnesium	MgO	1,2
Ferum	Fe	0,8
Manganese	Mn	0,5
Boron	B	0,6
Zinc	Zn	0,6
Copper	Cu	0,4
Molybdenum	Mo	0,01

ECOLINE Universal Growth *(Chelates)**

Complex fertilizer | **Density 1,30 pH 6,5**

Crops	Time of application	Dose rate, l/ha
Cereals	Tillering – tube exit	2,0
Corn	8 – 10 leaves	2,0 – 2,5
Cabbage	Beginning of head formation	2,0 – 2,5
Fodder beets	Row closure	2,0 – 3,0

Complex concentrated microfertilizer designed for intensive plant growth at the initial stages of organogenesis.

Element		%
Nitrogen	$N\text{-}NH_2$	15,0
Potassium	K_2O	4,0
Magnesium	MgO	3,5
Sulfur	SO_3	3,5
Ferum	Fe	0,8
Manganese	Mn	1,1
Boron	B	0,42
Zinc	Zn	1,1
Copper	Cu	0,42
Molybdenum	Mo	0,01

ECOLINE Molybdenum *(Complex)*

Complex fertilizer | **Density 1,30 pH 5,5**

Crops	Time of application	Dose rate, l/ha
Soybeans, peas, sainfoin, chickpeas, seed plants of legumes	3-5 leaves	0,5 – 1,0
Vegetables	Fruit formation	0,5 – 1,0
Fruits	Fruit formation	1,0 – 1,5

Element		%
Nitrogen	$N\text{-}NH_2$	4,0
Phosphorus	P_2O_5	25,0
Molybdenum	Mo	7,0

Molybdenum is a part of nitrate and nitrite reductase enzymes. It participates in the processes of nitrogen absorption, protein and phosphorus metabolism. Legumes are especially sensitive to molybdenum supply due to its participation in the processes of nitrogen fixation of molecular nitrogen by Rhizobium nodule bacteria. It plays an important role for the quality of kernel and stone fruits.

ORGANIC AND MINERAL FERTILIZERS

ECOLINE Calcium-Boron *(Organic and mineral)**

Organic and mineral fertilizer | **Density 1,30 pH 7,0**

Crops	Time of application	Dose rate, l/ha
Fruits	Beginning of fruit formation	3,0
Vegetables	Beginning of fruit formation	3,0
Berries	Beginning of fruit formation	2,0 – 3,0

Element		%
Nitrogen	$N\text{-}NH_2$	12,5
Calcium	CaO	24,0
Boron	B	0,05

Combined highly concentrated microfertilizer in the form of organic and mineral complex. It is developed to eliminate the manifestation of calcium and boron deficiency, as well as for foliar fertilization of crops, especially demanding for calcium and boron provision (sugar beets, sunflower, oilseed rape, vegetables and fruits).

GROS Cobalt*

Organic and mineral fertilizer | **Density 1,23 pH 7,0**

Crops	Time of application	Dose rate, l/ha
Legumes	Budding – grains formation in the pods	1,5 – 2,0
Sugar beets	6 – 8 leaves, crop cover	0,5 – 2,0
Hayfields and pastures	At the beginning of regrowth of grass after mowing or the next cycle of grazing on cultivated pastures	1,5 – 2,0
Other crops	In case of need	1,5 – 2,0

Element		%
Cobalt	Co	5,0
Nitrogen	$N\text{-}NH_2$	2,5
Sulfur	SO_3	6,7

This special liquid fertilizer is recommended for foliar nutrition of crops which are sensitive to cobalt deficiency in the first part of vegetation. Cobalt is involved in nitrogen fixation of atmospheric nitrogen by legumes, activates the work of enzymes in plant and animal organisms, promotes normalization of metabolism, increases drought resistance of plants, improves the formation of chlorophyll.

The content of nutrients is given in volume percentage

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