

PRODUCT CATALOGUE — FOR AGRICILTURE — PROFESSIONALS



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HIGH-VALUE MICROBIOLOGICAL PRODUCTS

Humic substances and soil microorganisms -are foundation of fertility

The first Humate GreenOK products were launched in 2010. Since then, the product range has been constantly evolving, and consumers are offered ever-new products based on scientific research and field trials.

We strive to make each Humate GreenOK product:

- Ecological and nature-friendly, so the raw materials come from the depths of the nature peat, sapropel and microorganisms.
- Effective in strengthening plants and promoting higher yield.
- Highly qualitative, to meet the highest requirements of consumers in European countries and beyond.



SOIL TREATMENT

Formula EKO soil conditioner, contains soil microorganisms.

SEED TREATMENT

GreenCytokinin, Universal PRO, Formula EKO

DURING SEED SOWING

granulated products Formula 4X

FOLIAR APPLICATION

Universal PRO humic substance concentrate – organic fertiliser – plant bio-stimulator.
 GreenCytokinin microbiological preparation – plant growth regulator.
 Green Buddy liquid nitrogen fertiliser (N 30%) with bio-active humic substances.
 Formula EKO microbiological preparation - promotes nitrogen fixation, release of potassium and phosphorus in the soil.

STRAW DECOMPOSITION

BIO Kompost for composting plant residue on the field.

Company goals:

To rely on the research of Latvian and international scientists, innovative technologies and consumer needs, when developing and producing new products. To offer high quality ecological fertilizers and growth promoters, which naturally contribute to increased yields and quality of agricultural production, such as grains, fruits, vegetables and horticulture, as well as maintain and promote fertility of the soil.





PACKAGING: 1,5 L, 3 L, 5 L, 25 L



RECOMMENDED APPLICATION

GreenCytokinin

MICROBIOLOGICAL PREPARATION plant growth regulator, immunomodulator

RECOMMENDED FOR ALL CULTURES

Trials have been conducted in cooperation with University's of Latvia Laboratory of Plant Genetics, and with the Latvia University of Life Sciences and Technologies.

CONTAINS: Pseudomonas stutzeri 3x10° cfu/ml, pH 7-9, phytohormones: cytokinins (12 mg/l), auxins (0,06 mg/l). Contains vitamins and special substances- elicitors, which contribute to the formation of plant immunity against pathogens and adverse environmental factors. *Suitable for organic farming in accordance with Commission Regulation (EC) No. 889/2008, Article 3, Clause 4, 5.* **Reg. No. 10.03-1751-18**

KEY INFORMATION AND BENEFITS

- Promotes uniform and faster seed germination.
- Promotes the development of a strong root system and the formation of a strong trunk.
- Effectively regulates plant organogenesis, when used at the recommended processing time.
- Increases the plant's resistance to adverse weather conditions.
- Promotes photosynthesis processes.
- Increases yield and improves crop quality.

PLANT	DOSE	TIME OF APPLICATION	
CEREALS	0,25 l/t	During seed treatment with mordant	
	0,5 l/ha	During 3-5 leaf stage	
winter / summer	0,5-0,8 l/ha	When vegetation resumes, before 2nd node appears	
	0,5 l/ha	During flag leaf emergence, together with fungicides	
RAPESEED	0,5-1,0 l/ha	During 3-5 leaf stage	
winter / summer	0,5-1,0 l/ha	When vegetation resumes, until flowering stage	
CORN	0,5-1,0 l/ha	During 3-6 leaf stage	
BEANS, PEAS	0,25 l/t	Seed treatment	
	0,5-1,0 l/ha	When 1st flower emerges	
VEGETABLES	0,25 l/t	Seed treatment	
ROOT CROPS	0,5-1,0 l/ha	During 2-6 leaf stage	
FORAGE GRASSES	0,5-1,0 l/ha	Spring - when vegetation resumes, during 3-6 leaf stage	
POTATOES	0,15-0,3 l/t	Tuber treatment	
	0,5-0,8 l/ha	When stems are 10-15 cm high	



We recommended to combine Cytokinin:

- * In sandy soils, with humic substances and/or amino acids.
- * In fertile soils together with potassium foliar fertilizer.

* At flag leaf stage with amino acids.

GreenCytokinin





Trial on corn in the foreground, 2nd treatment with GreenCYTOKININ







PACKAGING: 5 L, 10 L, 25 L, 1000 L IBC

COMPOSITION: Humic substances 2.5% (25 g/l); Organic matter 2.3%; Humidity 94.8%; pH 7-9; Amino acids, vitamins. *Natural organic fertilizer - a concentrate of humic substances, produced from ecologically clean peat. The product has increased biological activity.* Reg.No. G0.06-0690-10

Universal

ORGANIC FERTILISER - biostimulant

SUITABLE FOR ALL CROPS

KEY INFORMATION AND BENEFITS

- Activates plant physiological processes.
- Improves seed germination and rooting of seedlings and cuttings.
- Promotes the development of the root system.
- Stimulates plant growth and fruiting.
- Increases yield (15-30% yield increase in field studies).
- Increases plant resistance to adverse growth conditions.
- Promotes development of soil microorganisms, improves the soil structure, retains moisture in the soil.
- The dose of mineral fertilizers can be reduced by 15-30%.
- Delays the leaching of mineral fertilizers embedded in the soil.

CAN BE MIXED WITH LIQUID FERTILIZERS, HERBICIDES, ETC.

Diverse research and application of humic substances has taken place also in other countries, for example, Ukraine, USA, New Zealand, Canada, Germany, the Czech Republic, and African countries. Experiments were carried out with garden products: potatoes, cereals, pasture grass, rice, berries, rapeseed, sugar beet, cocoa, etc. In all cases, positive results were shown in terms of increase in yield, as well as in seed and planting quality indicators. The morbidity of plants, as well as amount of mineral fertilizer required decreased.

PLANT	DOSE product/water	VOLUME	PERIOD AND METHOD OF USE	
	0,15 l / 10 l	1 t	Adding to seed mordants	
winter / summer	0,5 l / 200 l	1 ha	After sowing, together with herbicide	
	0,5 l / 200 l	1 ha	From 3-leaf to 2nd node stage, with fertilisers and PPL	
	0,2 l / 20 l	1 t	Pre-sowing seed treatment	
RAPESEED, LEGUMES	0,5 l / 200 l	1 ha	After sowing, together with herbicide	
LEGOMES	0,5 l / 200 l	1 ha	Foliar feeding, until flowering	
	0,15 l / 10 l	10 kg	Seed soaking for 2 hours	
VEGETABLES, ROOT CROPS	0,5 l / 200 l	1 ha	When 3-4 leaves have developed – foliar feeding	
	0,3 l / 200 l	1 ha	20-30 days after 1-st fertilisation – foliar feeding	
	0,1 l / 10 l	1 t	Pre-sowing seed treatment	
FORAGE & LAWN	0,5 l / 200 l	1 ha	In the spring - when vegetation resumes	
CITIODED	0,3 l / 200 l	1 ha	3-5 days after each mowing – foliar feeding	
	0,3 l / 200 l	1 ha	When vegetation resumes	
STRAWBERRIES	0,3 l / 200 l	1 ha	Before flowering	
	0,3 l / 200 l	1 ha	25-30 days after last berry picking	
FRUIT TREES BERRY BUSHES	0,3 l / 200 l	1 ha	During leaves sprouting	
	0,3 l / 200 l	1 ha	During bud formation phase	
	0,3 l / 200 l	1 ha	10 days after flowering ends	

RECOMMENDED APPLICATION

Universal PRO



Peas root system



Spring barley seed sprouts



Cabbage root system





Yield of potato tubers "Madara" from 1m² - IV repetitions per 1m² (kg/m²)







PACKAGING: **5 L, 25 L, 1000 L IBC**

RECOMMENDED APPLICATION

The product is intended for use both on the soil and for additional fertilization through the leaves.

Can be used for all crops, with pouring nozzles (no pressure).

The dosege of nitrogen fertilizer (N) is calculated according to the nutrient (kg/ha) and the crop fertilization plan. (1 l - 1,31 kg) and (1m³ - 1310 kg) 1st time - after vegitation resumes, when soil temperature has reached 7-10°C, (Coltsfoot flowering period).

Even small doses are easily dispersed 10-20 l ha⁻¹, diluted with water 1:10 (working solution 200 l).



Green Buddy

NITROGEN FERTILISER

COMPOSITION:	total nitrogen (N)	30%
	nitrate nitrogen (N-NO ₃)	7,7%
	ammoniacal nitrogen (N-NH ₄)	7,5%
	amide nitrogen (N-NH ₂)	14,8%

Contains bio-active humic substances and natural microorganisms, that promote nutrient uptake by the plants and decrease soil nutrient leeching, boosting fertiliser effectiveness.

Reg. No. CI.02-1841-19

KEY INFORMATION AND BENEFITS

- Fast and noticeable effect
- Increases efficiency of mineral fertilizers by 10-20%.

Scientifically proven that: combining humic substances and mineral fertilizers ensures their effective uptake by plants. The positive process of nitrogen assimilation is related with the enhancement of ion exchange processes, decreasing volatilization of Nitrogen (N).



We recommend using it in cloudy weather or in the evening, when frost is not expected.

Warning! Protect from prolonged exposure to sunlight. Storage temperature from 0°C to +30°C.



PACKAGING: 5 L, 10 L, 25 L, 1000 L IBC



RECOMMENDED APPLICATION

Formula EKO

MICROBIOLOGICAL PREPARATION SOIL CONDITIONER For NPK binding, release and mobilization

Sapropel concentrate of natural origin, with bio-active humic substances, amino acids and vitamins.

COMPOSITION: Bacillus spp., Azotobacter bio-active humic substances, 10 g/L pH 7±1

RECOMMENDED DOSAGE:

5 - 10 L/ha (soil treatment) 1,0 L/ha (foliar application) **Suitable for organic farming.**

Reg.No. JO.03-2303-23

KEY INFORMATION AND BENEFITS

- Restores and activates microbiological processes in the soil.
- Improves biological, physical and chemical properties of the soil.
- Promotes nitrogen fixation, release of potassium and phosphorus in the soil.
- Enriches depleted and sandy soils with humic substances.
- Long-term treatments increase organic matter in the soil.

OPTIONS	рН	OV	K ₂ O	P ₂ O ₅	
CONTROL	6,1	1,9	156	124	
<i>Formula EKO:</i> 5 l / ha ^{.1}			_	-	
<i>Formula EKO:</i> 10 l / ha ⁻¹	6,1	2,0	184	210	
<i>Formula EKO:</i> 20 l / ha ⁻¹	6,1	2,1	168	186	
	K ₂ O	+15%	P ₂ O ₅ +6	0%	MAN DAVISKSK

For one hectare treatment we recommend using 5-10 liters of concentrate diluted with 200 liters of water, before sowing (suitable for direct sowing) or after harvesting together with *Biokompost* (*Formula Eko* 2 l/ha + *Biokompost* 2 l/ha).



PACKAGING: 5 L, 10 L, 25 L, 1000 L IBC

RECOMMENDED APPLICATION

Spray the ground before or after sowing, or on plant residue after harvesting. Dilute the concentrate with water (100 -200 l/ha) **Can be used with glyphosate.**

For simultaneous improvement of the soil and decomposition of the straw it's recommended to use: *Biokompost* 2 l ha⁻¹ + *Formula Eko* 2 l ha⁻¹



BIO Kompost

CROP RESEDUE DECOMPOSITION

COMPOSITION: Bacillus subtilis, Bac. amyloliquefaciens, bio-active humic substances 10 g/l.

RECOMMENDED DOSAGE: 2-3 l/ha

soil conditioner based on organic sapropel, contains natural soil microorganisms that contribute to the decomposition processes of organic matter.

KEY INFORMATION AND BENEFITS

- Promotes the natural, gradual degradation and decomposition of plant residues.
- Enriches depleted and sandy soils with humic substances and organic matter.
- Improves biological, physical and chemical properties of the soil.
- Improves soil fertility.
- Suppresses pathogenic microflora.





PACKAGING: 20 kg, 1000 kg Big bag



RECOMMENDED APPLICATION

- In heavy soils, ash is incorporated in the fall, and in sandy soil or peat in the spring.
- Can be incorporated in to the soil alone or with manure 1-4 t/ha.
- Plants are able to use potassium and phosphorus from ash much better than from potassium and superphosphate fertilizers.
- Do not use together with nitrogen fertilizers.

Natural wood ash

QUICK RELEASE LIMING MATERIAL FOR SOIL AND PLANTS

KEY INFORMATION AND BENEFITS

- Effectively reduces soil acidity
- A valuable source of minerals and a high-quality alkali containing more than 30 nutrients (K, P, Ca, S, Mo, Mn, B, Zn, Fe etc.)
- Repels various pests.
- Does not contain unwanted chlorine.
- Beneficially affects plant health and yields.

COMPOSITION:	CaCO₃	24%
	Ca (calcium)	7%
	Mg (magnesium)	1%
Trace elements:	Mn, B, S, Fe, etc.	

Reg.No. F0.10-1990-20





PACKAGING: **20 kg** MANUFACTURER: CityMax





AminoMAX

AMINO ACIDS

Amino acids play a vital role in plant metabolic processes, they are the building blocs of proteins, enzymes and growth hormones, which in turn are the basis of all life processes in plants.

COMPOSITION:

Amino acids	85%
Organic N	13,5%
Solubility	100%
рН	4,5-5,5

RECOMMENDED APPLICATION:

500 g ha⁻¹: 2 to 4 times during vegetation period. During critical phases of plant development (e.g., in spring - when vegetation resumes, during the bud formation phase - at the beginning of flowering, during the ear formation phase).

Before or after stress factors (e.g. 2-7 days after using herbicides).

KEY INFORMATION AND BENEFITS

- Improves plant respiration, nutrient uptake and distribution within the plants.
- Promotes photosynthesis.
- Increases plant resistance to stress.
- Improves yield quality.

During production of amino acids plants spend a lot of energy, but when the plant is under stress conditions, it goes into an energy-saving state. Then: stomata closes, respiration becomes slower, metabolic processes are disrupted, and as a result the protein synthesis is stopped. It is especially dangerous if stress coincides with periods critical in plant development. In this case, treatment with easily absorbed amino acids, which are the most mobile form of nitrogen, will quickly restore physiological development of affected plants.

An important factor is that amino acids are completely soluble in water, have a small molecular size and can easily enter the plant and facilitate the transportation of other nutrients. Amino acids mix well in tanks with other fertilisers and plant protection products.

It is not recommended to mix amino acids with oil-based solutions and preparations containing copper. It is recommended to do a test mixing to avoid unintended consequences.



PACKAGING: 20 kg, 500 kg Big bag



Formula 4X

GRANULAR STARTER FERTILIZER

COMPOSITION: Organic matter 40%

Humic substances 5% **NPK 2,2 - 2,2 - 5** Calcium (Ca) 2,8; Magnesium (Mg) 1,6; Moisture 32%; pH 6,6.

Universal organo-mineral, long-acting fertilizer for precision agriculture.

Reg.No. G0.07-1528-17

KEY INFORMATION AND BENEFITS

- Provides plants with main nutrients in their early stage of development (NPK).
- Provides plants with naturally occurring calcium (Ca), magnesium (Mg) and sulfur (S).
- Increases resistance of plants to adverse growth conditions.
- Promotes soil microbiological activity.
- Improves soil composition.

RECOMMENDED APPLICATION:

25-50 kg/ha, as a starter fertilizer during seed sowing.





PACKAGING: **10 L, 500 kg, 1100 kg**



Granulated chicken manure

with humic substances ORGANIC FERTILISER

COMPOSITION: Total nitrogen (N)		
Total phosphorus (P ₂ O ₅)	3%	
Total potassium (K ₂ O)	3%	
Moisture max	13%	
Organic matter not less than	72%	
<ia.]₩givghubwrgi< td=""><td>36%</td></ia.]₩givghubwrgi<>	36%	
d< ``Yj Y``	7±1	

Pellet diameter: 4 mm (during sowing) 6 mm (pre-sowing).

Reg.No. G.06-2277 -23

Storage: in closed, dry rooms, 3 years.

KEY INFORMATION AND BENEFITS

- There is no risk of burning plant roots, as the supply of nutrients is gradual and long-lasting.
- Soil acidification does not occur.
- Contains no weed seeds.
- Does not contain pathogens.
- Pest or parasite egg free
- The 'smell' of bird manure repels pests.

Chicken manure can be used as a **base** fertilizer, as a **supplemental** fertilizer, and as an additive to compost (to increase the value of compost).

RECOMMENDED APPLICATION (APPROXIMATE):

PLANT	WITH A FERTILIZER SPREADER, t/ha (6mm)	DOSE, kg/m²	WITH A SEEDER, kg/ha (4 mm)
WINTER CROPS	0,8-1,0		100-200
SUMMER CROPS	0,5-1,0		100-200
POTATOES	1,0-2,0	0,1-0,4	
CORN SILAGE	1,0-3,0		
VEGETABLES	1,0-1,5	0,1-0,4	
LAWN GRASS	1,0-2,0	0,1-0,4	
MEADOWS, PASTURES	1,0-2,0		
FLOWERS, incl. ROSES		0,15-0,25	
STRAWBERRIES		0,1-0,4	
FRUIT TREES, BERRY BUSHES	1,5-3,0	0,1-0,4	
TREE NURSERIES	1,0-2,0	0,1-0,4	



PACKAGING: 5 L, 25 L, 1000 L IBC

BENEFITS

- Energy resource and money savings when stirring manure.
- Nutrient-rich, homogeneous fertilizer used for soil improvement and plant feeding.
- Improved micro-climate in manure containers and in their surroundings.

BIOKOMPOST:

TREATMENT FOR MANURE LAGOONS

KEY INFORMATION AND BENEFITS

- Prevents unpleasant odours from decomposition of organic matter.
- Promotes development and reproduction of beneficial soil microorganisms
- Promotes atmospheric nitrogen uptake
- Helps to maintain more uniform and liquid manure.

RECOMMENDED APPLICATION

Stage I: surface treatment with Lactobacillus spp. premixer, thereby reducing the pH of the slurry, which in turn contributes to the reduction of ammonia (NH₃) volatilization and the preservation of N in the fertilizer. 5 L Lactobacillus + 50 L H₂O per 50-100 m³. **Stage II:** treatment after 3 days with BIO Compost, to obtain a homogeneous mass.

COMPOSITION: humic substances, Bacillus spp. **DOSAGE:** 2.5 L / 10 m³

Used in channels, slatted floors, premixers, lagoons and tanks.





Winter cereals

wheat, rye, barley, triticale





Winter rapeseed



Summer crops



wheat, barley, triticale, oats





Summer rapeseed



Legumes

peas, beans





Potatoes









Anita Albertiņa Sales representative

Silvija Bērziņa Sales representative T: +371 28634128 anita.albertina@greenok.lv

T: +371 26536246 silvija.berzina@greenok.lv

"Razosanas Tehnologijas" LTDBrivibas street 144, Riga, Latvia,
LV-1012 T: +371 29140290,

info@greenok.lv



www.greenok.lv