



EKO - SP

organomineral
degradator

ECO-PURE PRODUCT

BIRD DROPPING
CONVERSION FROM THE 3d
HAZARD CLASS TO THE 4th
CLASS WITHIN **72 HOURS**

COMPLETE ODOR REMOVAL
WITHIN 48 HOURS

TECHNOLOGY IS BASED ON ACCELERATED
BIOCONVERSION BY «EKO-SP» ECOLOGICALLY
PURE ORGANOMINERAL DEGRADATOR



eko-sp.pro

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Presentation



«EKO-SP» ORGANOMINERAL DEGRADATOR IS

A COMPLEX MICROBIOLOGICAL PREPARATION WITH HIGH LEVEL OF HUMIC COMPOUNDS, MICRO/MACROELEMENTS, AMINO ACIDS, HAVING HIGH OXIDATION-REDUCTION REACTIONS AND MICROBIAL CONSORTIUM, WITH PRONOUNCED NITROGEN-FIXING PROPERTIES.



TO RESOLVE THE PROBLEM OF BIRD DROPPING UTILIZATION MEANS AN ATTITUDE TOWARDS THE LITTER AS A STRATEGIC RAW MATERIAL!

BENEFIT FROM THE USE OF «EKO-SP» ORGANOMINERAL DEGRADATOR

ECONOMICAL BENEFIT

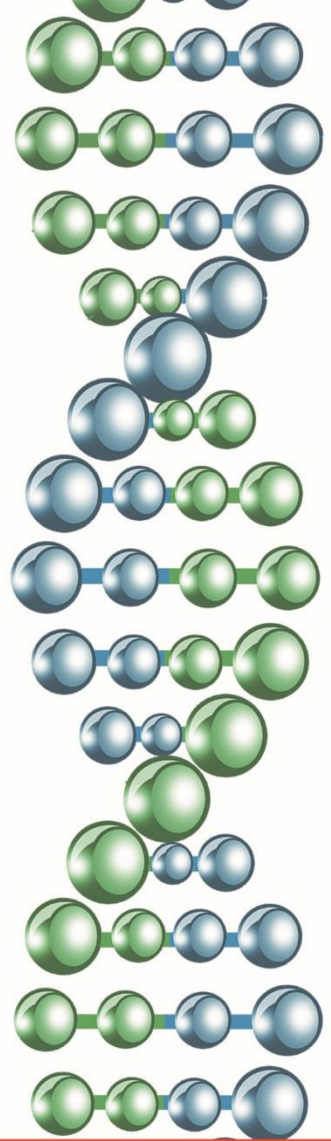
- 1 Litter utilization is cheaper by 664 rub/ton according to the Decree of the Government of the Russian Federation No. 913 of 13.09.2016 "On payment rates for a negative impact on the environment".
- 2 Possibility to plan and implement at once the litter mass with 3 persons involved
- 3 Saving of man-hours and equipment
- 4 Cost savings for purchasing moister-absorbing materials (peat, straw, sawdust)
- 5 Reduction of technological processes for mass utilization
- 6 No need for maintenance costs on the composting site
- 7 Prime product cost reduction
- 8 Production of commercially attractive and eco-pure fertilizer

ECOLOGICAL BENEFIT

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- 1 Conversion of organic mass into the 4th hazard class
 - 2 Unpleasant odor removal in the territory
 - 3 No need for storage spaces
 - 4 Reduced pollution and environmental emissions
 - 5 Sufficient increase of beneficial microflora in the organic litter mass and tenfold reduction of pathogenic microflora
 - 6 Preservation of nitrogen and other nutritious elements

INNOVATIVE MICROBIOLOGY

- 1 Removes unpleasant odor
- 2 Reduces the cost of recycling
- 3 Preserves nutrients
- 4 Forms a new model of continuous litter recycling technology



Accelerated bioconversion is a transfer of fresh bird dropping from the 3d hazard class to THE 4th class at minimum labor, time and financial costs, while retaining the maximum possible beneficial properties of the mass as a raw material for the production of fertilizers.





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COMPOSITION:

- Microorganisms and its metabolic products;
- Enzymes; Ferments; Peptides; Amino acids;
- Bacteria - antagonists of pathogenic species of fungi and bacteria;
- Phosphorus - and potassium-mobilizing soil humic bacteria;
- Natural endophytic and soil nitrogen-fixing bacteria;
- Humic acids;
- Macro- and microelements.



PACKING: 10 LITERS

- ▶ TR 20.14.33-001-19354396-2017
- ▶ Certificate of Conformity № ESTD1.B002.AO241
- ▶ Statement of the Federal Service for Veterinary and Phytosanitary Surveillance № ФС-НВ-2/247
- ▶ Environmental Compliance Certificate CEP (2603)-Г-549/ОС-51

ORGANOMINERAL DEGRADATOR APPLICATION RATE FOR DISINFECTION 1 TON / 10 LITERS

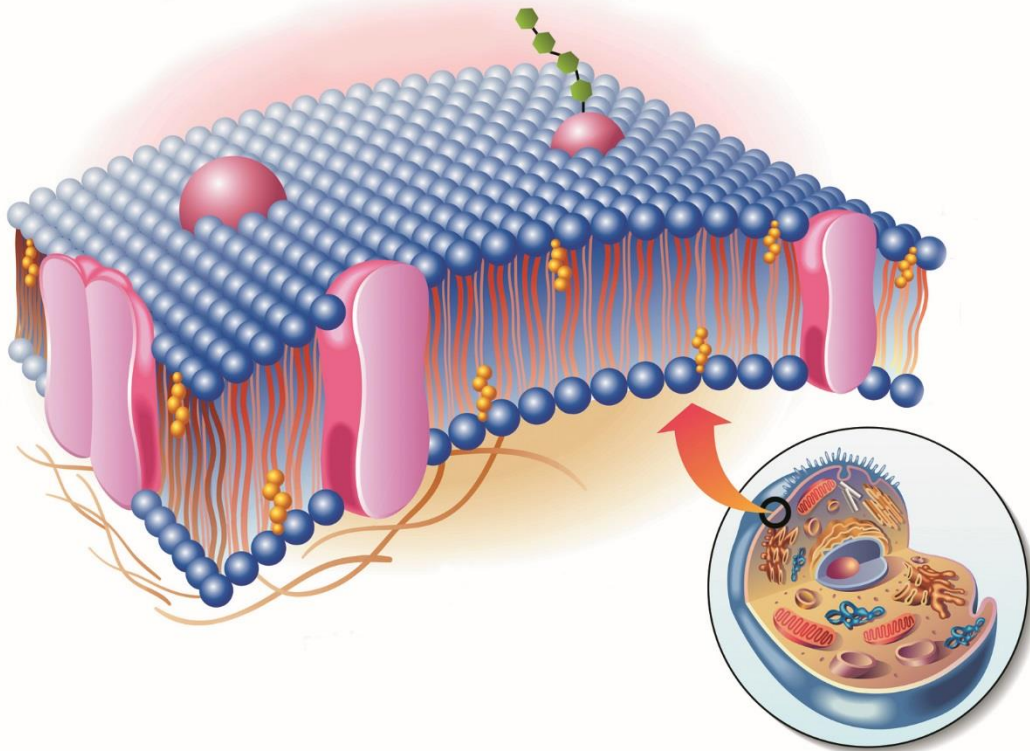


The **PURPOSE** is to provide poultry farms with a low-budget solution that gives the highest quality result in reducing the material and labor costs in litter utilization.

+ improving its quality as a raw material for recycling and producing fertilizers on its basis, as well as a reliable environmental protection.



BASIC PRINCIPLES OF ACCELERATED BIOCONVERSION



BIRD DROPPING

(a mixture of rapidly and slowly decomposing organic compounds)

Mixed with an organomineral degradator
(with high redox potential)

Forms aerobic and anaerobic groups of microorganisms
(with hydrolytic exoenzymes)

Starts a complex process of organic conversion
(due to the simultaneous flow of two multidirectional processes)

Mineralization process leading to the decomposition of organic substance to simple mineral compounds, up to carbon dioxide, nitrogen oxides and water.

Humification process leading to the cessation of organic substance decomposition at the stage of individual fragments formation, as well as to the synthesis of complex molecules from simple mineral compounds.

MICROBIOLOGICAL TRANSFORMATION

The technology of accelerated bioconversion using “EKO-SP” organomineral degradator is **applied independently**, and can also be **successfully integrated** into litter utilization technologies provided in the Information-technical reference book for best available technologies “Intensive Poultry Breeding”



BENEFITS:

- 1 Significantly saves utilization time
- 2 Increases the nitrogen preservation index
- 3 Improves the overall ecological and economic effect
- 4 Eliminates the use of moisture-absorbing material (peat, straw, sawdust)
- 5 Minor initial investments

Due to accelerated bioconversion, the humification process for organic substance prevails over the process of its mineralization, forming the compost with both good fertilizing properties and meliorating effect as well.

Therefore, such “72 hour compost” allows recovering properties and increasing the fertility of disturbed, degraded and polluted soils.



An organomineral degradator with increased reactivity effectively binds heavy metal ions, hydrocarbon molecules, synthetic surfactants, polyaromatic and polychlorinated compounds and residual amounts of pesticides, salts and other natural and synthetic ecotoxicants.

The organomineral degradator is harmless to humans, animals and environment. It does not contain genetically modified and pathogenic microorganisms.

ADVANTAGES OF ACCELERATED BIOCONVERSION:

MINOR INITIAL INVESTMENTS

LOW CAPITAL COSTS

LOW OPERATIONAL COSTS

RELIABLE DISINFECTION

COMPLETE REMOVAL
OF UNPLEASANT ODOR
IN 48 HOURS

NITROGEN LOSSES REDUCED
TO THE MINIMUM

MAXIMUM PRESERVATION
OF NUTRITIOUS ELEMENTS
IN RAW MATERIALS

INCREASE CONTENT OF
HUMUS ELEMENTS IN RAW
MATERIALS

HIGH SPEED OF METABOLIC
REACTIONS

CONTROL OF THE STABLE
CHEMICAL ACTIVITY OF
MICROORGANISMS

HIGH ECONOMIC AND SOCIAL
EFFECT

REDUCTION OF PRIME
PRODUCT COST

SIMPLICITY OF APPLICATIONS, MINOR INITIAL INVESTMENTS AND HIGH ECONOMIC AND SOCIAL EFFECT CONTRIBUTE TO THE EFFECTIVE IMPLEMENTATION OF THIS TECHNOLOGY IN POULTRY FARMING.

METHODS OF USE

Manually using spray bottle



Using special equipment



ORGANOMINERAL DEGRADATOR APPLICATION RATE FOR DISINFECTION 1 TON / 10 LITERS

- If the litter humidity is less than 40%, add 10 liters of water in the tank (1:1) and prepare the working solution at the rate of 50% water + 50% degradator (1:1).
- Properly mix the solution.
- Pour the working solution into the tank and treat the biological waste according to manufacturer and supplier instructions.
- Evenly apply the working solution to the treated surface.
- If you have an automatic dispenser, use the instructions, guidelines and recommendations of the equipment supplier.

The technology of accelerated bioconversion with the use of “EKO-SP” organomineral degradator is a new way to improve the efficiency and implementation of production reserves for the poultry business.

ORGANOMINERAL DEGRADATOR



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EKO - IS THE POWER OF NATURE!

Presentation

