Does not contain chlorine
Safe for humans and animals
Does not cause corrosion of metals

EcoDis
HIGH-eco-friendly disinfectants
EcoDis is a research and production company, which produces innovative disinfectant products based on polyhexamethylene guanidine hydrochloride, which has a unique combination of physical, chemical and biocidal properties.

The company conducts laboratory and pilot -Industrial production tests. It also develops and creates new compositions.
ECODIS main product is polyhexamethylene guanidine hydrochloride (PGMG GC), produced in Russia by the Institute of ecological and technological problems (IETP). The product is specially adapted to humid tropical climate. For more than 15 years IETP holds a leading position in the world in the field of research and the production of polymeric guanidine. According to the criteria of efficacy, toxicity, environmental safety, as well as the physical and chemical properties, polymeric guanidine produced by the IETP are substantially different from the products of other companies who sell the material under the name α-PHMG.

PHMG refers to biocide broad spectrum antimicrobial properties against Gram-positive and Gram-negative bacteria, viruses (including viruses of enteral and parenteral hepatitis, HIV, poliomyelitis, influenza, herpes, etc.), fungi including molds, yeasts, fungi of the genus Candida, candidiasis, dermatophyte.

The drug was created in the likeness of natural antimicrobial system as amino acids occurring in the human body and other living organisms, for example, certain shellfish; it was possible to magnify biocidal activity as compared to natural biocides, while reducing toxicity and extend the field of application at the expense of the long polymer chain.

ECODIS is making a devastating impact on cell membrane of microorganisms, have high virucidal and bactericidal activity.

ECODIS refers to Class 3 moderately hazardous substances, when introduced into the stomach and to the 4th class of low-hazard substances, using a single exposure to the skin does not irritate. You should use personal protective equipment when spraying.
<table>
<thead>
<tr>
<th>AREAS OF USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disinfection of water in swimming pools</td>
</tr>
<tr>
<td>Medicine</td>
</tr>
<tr>
<td>In everyday life, social and educational institutions</td>
</tr>
<tr>
<td>Food processing industry</td>
</tr>
<tr>
<td>Cleaning and disinfection of water</td>
</tr>
<tr>
<td>Poultry</td>
</tr>
<tr>
<td>Building</td>
</tr>
<tr>
<td>Veterinary, Livestock</td>
</tr>
<tr>
<td>Harvesting and processing of wood</td>
</tr>
<tr>
<td>Agriculture</td>
</tr>
<tr>
<td>Fish-producing companies</td>
</tr>
<tr>
<td>Meat processing plants</td>
</tr>
</tbody>
</table>
Method of application: Disinfection is conducted by wiping, irrigation, soaking and immersion in accordance with the mode specified in the instruction. The solution used for cleaning objects is between 0.25-25% solution in the preparation.

Properties
ECODIS has a broad spectrum of antimicrobial activity and refers to a class IV Harmful chemicals.

Result
Effective disinfection of hands, clothing, buildings, medical waste, elimination of unpleasant smells
Properties: no irritating effect on the skin and mucous membranes, non-allergenic, non-corrosive to hardware and does not discolor materials, including bathing suits and swimming trunks. Ecodis causes rapid death of various bacteria, viruses, yeasts, and algae microorganism.

Mode of application: Calculate the amount of preparation that must be diluted with water to obtain 0.5-1% solution in the pool (i.e., 5-10) and add to the water for the purpose of uniform mixing. Estimated time to reduce the concentration of product in the pool water to 0.5-1 mg / liter (g / m3) is 7 days.

Result:
- Effective disinfection of water without the use of chlorine and other hazardous chemicals.
- It will attract a new visitors and people, who due to an allergy to chlorine can not attend other public pools.
- Reduce the cost of pool maintenance.
CLEANING AND DECONTAMINATION OF WATER PRODUCT

FORM: 5% CONCENTRATE PREPACKAGED 1 LITER, 5 LITER, 20 LITER

Properties: no irritating effect on the skin and mucous membranes, non-allergenic, non-corrosive to hardware and does not discolor materials. It causes rapid death of various bacteria, viruses, yeasts, and algae microorganism.

The active ingredient - polyhexamethylene guanidine hydrochloride is approved for water purification and disinfection purposes.

Mode of application.
The drug is used in a concentration of 0.2-2.0 mg/L of active material in compliance with the exposure time of 120 minutes. The concentration of the drug is chosen experimentally. For each particular water sample taken the necessary quantity of Ecodis needed depends on the microbial contamination of water.
PDKv- in water reservoirs, in home drinking water and cultural and community water - 0,1 mg/L ; PDKr.h.- fishery in water body of water - 0.01 mg/L.

Results:
- Effective disinfection of water, including drinking, without using hazardous reagents.
- Eliminating odors.
POULTRY

PRODUCT: 5% CONCENTRATE IS PACKED 1L, 5 L, 20 L

Properties. ECODIS has antimicrobial activity against gram-positive and gram-negative bacteria as well as viruses and fungi. This drug refers to moderately hazardous substances and is not harmful to the birds and animals.

How to use: Treatment of rooms, cages, clothing, equipment, irrigation atomizing 0.15%, Adding in whitewash 3-4% Impregnating the mats with 1% Ecodis

Result: Disinfection of rooms, cells, equipment, uniforms, prevents infection of the staff, disease prevention, disease reduction. Raising live weight of livestock and poultry
5% concentrate is packed 1L, 5 L, 20 L

Ecodis has antimicrobial activity properties against Gram-positive and Gram-negative bacteria, including Mycobacterium tuberculosis, as well as viruses and fungi. This refers to moderately hazardous substances and is not harmful to animals.

Mode of application: Preventive disinfection additive comprises 3-5% ECODIS in whitewash for walls and ceiling; moisturizing entrance mats 1% solution
Cleaning spray formulation:
For washing overalls, disinfection staff hands - 1% solution
For the treatment of hoof rot, mastitis and other diseases - 1% solution

Result: Anti-microbial protection, including Mycobacterium tuberculosis, viruses and fungi. Effective disinfection of premises, clothing and equipment.
Features: safe for the animals, the surface acquires and maintains its antimicrobial properties for a period of 7 days to 8 months. ECODIS removes odors.

Mode of application:
Wet cleaning, treatment of cells, bedding, tools. Atomizing irrigation, wiping, dipping in 0.15% solution of active material.

Result: prevention and a significant reduction in the risk of contamination of animals and their owners. Effective treatment of pigs, cows, cats, dogs and other animals: dermatitis, stomatitis, otitis, burns, ringworm, do not heal wounds, mastitis, dyspepsia, fungus, ulcers, foot rot, fray.
**FISH FARMING, TRANSPORTATION OF LIVE FISH**

**PRODUCT FORM: 5% CONCENTRATE PREPACKAGED 1 LITER, 5 LITER, 20 LITER**

Mode of application: Depending on oxidation of permanganate in water according to sanitation. Disinfection of equipment, tanks and buildings. Treatment by wiping, irrigation or spraying with appropriate concentration of working solutions.

Result: Prevention and treatment of diseases, increasing the number of live weight and farmed fish.

MAC (maximum allowable amount) in the water reservoir of fisheries should not exceed 0.01 mg / l.
AGRICULTURE

PRODUCT: 5% CONCENTRATE IS PACKED 1L, 5L, 20L

When growing, storage and processing of agricultural products more a third of the crop is lost. One of the main reasons for the high loss is infestation of plants by various pathogens and saprophytes.

Properties:
- The ability to deal with pests, while remaining safe to animals.
- ECODIS harmoniously combined with the environment.
- Effectively eliminates molds and fungi.

Mode of application. Liberally spray on the plants a solution after each irrigation in the treatment. To prevent 1 time per week (0,1% solution). Adding a drug in the water. Seed treatment with a solution of the drug 0,1% . Processing harvest before of storage 0,1% solution.

Results:
- Cures rust, powdery mildew, sooty mushrooms, stems and roots rot, gray mold and leaf spot.
- Destroys whitefly, spider mite.
- Increases productivity of fruit, vegetable and cereal crops.
PROTECTION OF FUNGICIDAL (ANTIFUNGAL, ANTI MOLD)

PRODUCT: 10% CONCENTRATE IS PACKED 1L, 5L, 20L

Properties
ECODIS has a broad spectrum of antimicrobial activity and refers to a class IV Harmful chemicals.

Mode of application:
Clean the affected area abundantly and spray the 5% solution, allow to dry, spray again after 20-30 minutes. When prophylactic use, spray 0.5% on surfaces 1 time a week. Do not flush for continued bactericidal action.

The result: long-term protection of fungicidal (antifungal, anti mold)
According to statistics, more than 50% of losses related to the corrosion of underground structures taking place is precisely due to bio-corrosion.

Result.
Long-term protection anti-mold, antiseptic protection of materials, surfaces. **ECODIS** improves the characteristics of cement, concrete, plaster and paint. Use of Ecodis provides significant economic benefit.

**Product:** 10% concentrate is packaged 1 L, 5 L, 20 L

**Properties:**
When added to cement and concrete provide hardening, plasticizing, stabilizing effect. Mix with concrete a small amount of the drug to improve the penetrating ability of liquid concrete, and also provides a heavy-duty concrete structures

The addition in paint, plaster and in mortar. Adding **ECODIS** in the whitewashing and paints based on PVA of 300 ml per 1 liter of whitewash or paint. When preparing solutions of dry construction mixtures instead of water add 1 liter of product per 5 kg of dry mix. Add **ECODIS** in the concrete.
PROTECTION OF WOOD AND LUMBER
PRODUCT: 5% CONCENTRATE IS PACKED 1L, 5L, 20 L

Properties: low-toxic, odorless, does not cause allergies and irritation of the mucous membranes, prevent metal corrosion, does not stain the surface, effectively suppress up to 30 kinds of mold, destroying wood staining fungi.

Dosing: The wood can be processed by immersion in a solution of spraying or brushing 2-5% Ecodis concentration
Select the concentration of Ecodis depending on the type of wood.

Result: effective protection of lumber, building designs and products made of wood,
Disinfects the surface, creating a biocide film on them. Safe for humans and animals. Long-term anti fungal protection.

Mode of application. Grout leaks on ceilings and walls, whitewash by diluting Ecodis at a 5% concentration. Protect the walls and ceilings latex paint with the addition of 5% Ecodis, disinfect racks and shelves for food, washing floors and walls lined with tiles, processing personnel overalls.

ECODIS has a unique competitive advantage due to its properties. The drug has a broad spectrum of biocidal action; effectively removes unpleasant odors, do not cause allergies; very economical to control a broad spectrum of bacteria (as compared with the expensive drugs); Reinforce the action of many other disinfectants; effectively inhibit mold; This drug belongs to the low-hazard substances.

Use of the drug provides significant economic benefits for the end consumer - producers of meat, poultry and agricultural products, food, pool owners, etc.. The drugs Based on PHMG last 10-15 years has been actively used in the construction and its use is now growing exponentially.
ECODIS AND BUSINESS: EARN ON ADVANCING PROMISING TECHNOLOGIES

Thanks to its set of unique qualities, ECODIS can be used for:
- Disinfection of transport: Railway, car
- Disinfection in the food industry: dairy, meat, bakery
- Mold control in enterprises and households
- Veterinary disinfection and treatment of animals
- Plant protection from diseases during the growing season and increase grain yield
- Increase the shelf life of crops, meat and dairy products

Forms of cooperation:
- Creation of joint ventures for the production of disinfectants
- Dealer agreements to promote production in Cambodia, Laos and other countries in the region
Mode of application:
While cleaning spray or wipe with a cloth moistened with a 0.05-0.2% concentration solution

Result:
- Eliminate the cause of unpleasant odors
- Kills E. coli.
- Prevention of infections.
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