

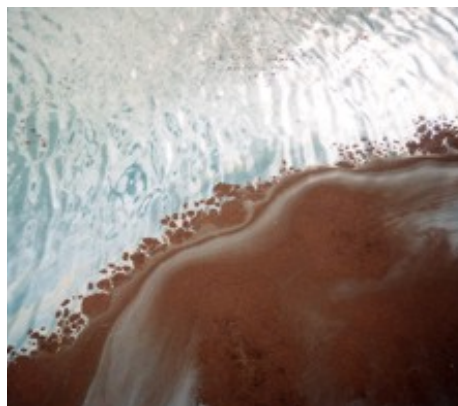
ECONAD



CLEANING • RESTORATION • PROTECTION



Scientific-Industrial Enterprise "ECONAD" Ltd.



Scientific-Industrial Enterprise "ECONAD" Ltd., established in 1991, is the sole developer and manufacturer of the organic universal sorbent-biodestructor of petroleum hydrocarbons known as the biological product "Econadin."

SIE "ECONAD" delivers oil spill response products throughout Ukraine and internationally. Our company provides product guarantees ranging from 1 to 5 years.

We are always ready to offer expert advice on the properties and applications of our products.

Oil, a natural product formed from the biomass of living organisms millions of years ago, also poses a significant risk to the natural biocenosis.



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SIE "ECONAD" also develops and supplies a wide range of environmental and related equipment, including:

- Adsorbents, bio-sorbents, and sorbent-biodestructors for oil product collection
- Sorbent and bio-sorbent booms for oil containment and collection
- Skimmers (petroil/oil/grease)
- Environmental kits for rapid oil spill response
- Absorbent materials for oil pollution collection and wiping
- Absorbent materials for the collection of organic and inorganic chemical pollutants
- Bio-absorbent booms for wastewater treatment
- Booms for the prevention, containment, and collection of oil pollution
- Filtering materials and matrix filter media for water treatment facilities
- Cleaning agents
- Sorbent sprayers
- And much more



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Environmental problems of oil pollution of sea and fresh water are becoming global, and go beyond the boundaries of a single country.



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Scientific research

For over 33 years, SIE "ECONAD" has been actively engaged in research focused on the development of environmental technologies, particularly in the field of biotechnological solutions for cleaning environments polluted by oil. Our primary research objectives include:

- Breeding avirulent and non-pathogenic bacteria capable of actively degrading petroleum hydrocarbons
- Studying their key characteristics
- Enhancing their destructive and oxidizing properties
- Developing biotechnologies and adapting them to polluted environments

SIE "ECONAD" has also conducted extensive research on marine organisms and their responses to chemical pollution. We have accumulated a collection of biologically valuable microorganisms, including bacteria that break down oil hydrocarbons, extracted from natural sources.



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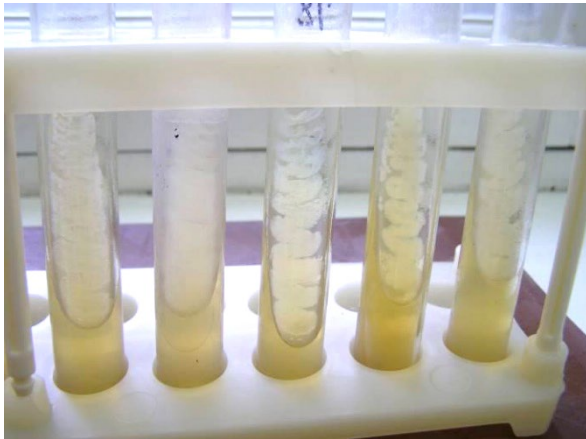


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Our researchers have collected seawater samples for microbiological examination. From these samples, as well as from freshwater and oil-contaminated soils, we have isolated oil-hydrocarbon-degrading bacteria. Researchers have developed a technology for immobilizing these bacteria into a natural organic carrier (upland sphagnum peat), which forms the basis of "Econadin's biotechnologies" for cleaning oil-polluted waters and remediating contaminated soils.

"Econadin's biotechnologies" rely on oil-degrading bacteria from the **Pseudomonas** genus, which are avirulent and non-pathogenic to humans, animals, plants, and the aquatic and marine environments in general.



"Econadin" biological product



The biological product "Econadin" is a next-generation sorbent-biodestructor.

Its base consists of avirulent oxidizing bacteria that demonstrate both sorption and destructive activity towards hydrocarbons in crude oil. The carrier is an organic material—upper sphagnum peat—which has a high absorption capacity.

"Econadin" is an eco-friendly, non-toxic, and odourless bio-sorbent. It has a light brown colour, a particulate composition with fibrous inclusions, and possesses hydrophobic properties, allowing it to remain buoyant on water.



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Microbiological monitoring of product “Econadin”



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The benefits of the product “Econadin”

Using Econadin's biotechnology through the biosorbent "Econadin" provides a rapid response solution for the containment and clean-up of oil spills on transport facilities.

"Econadin" solves:

- Eliminating contamination with minimal environmental impact
- Containing oil pollution in the shortest possible time, localizing spills, and preventing further spread
- Supporting the recovery of natural ecosystems and stimulating the environment's natural self-cleaning functions.



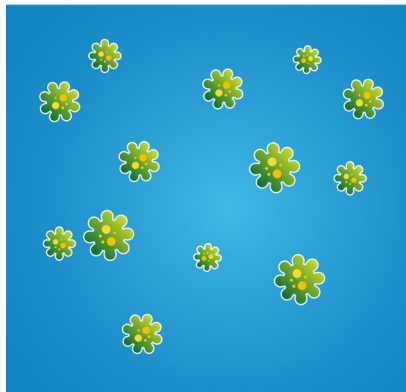
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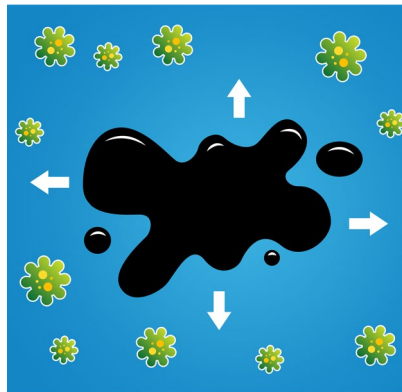


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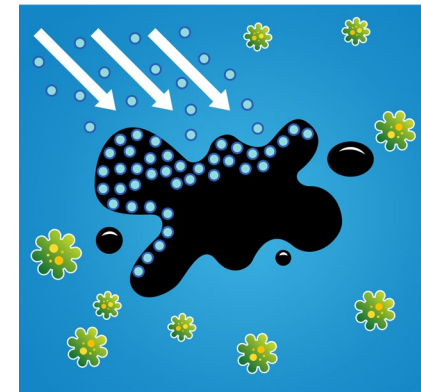
The process of degradation of petroleum hydrocarbons using bio-sorbent “Econadin”



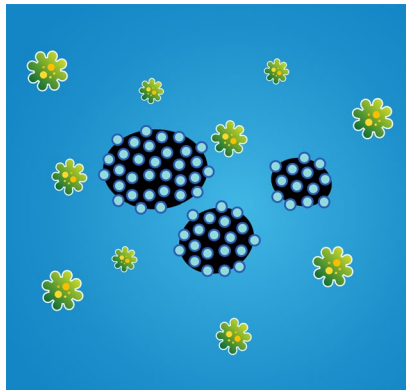
1. Ecosystem



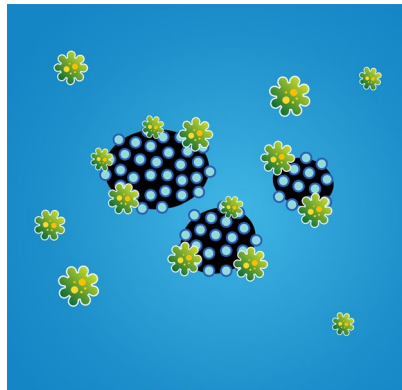
2. Violation of the integrity of ecosystem



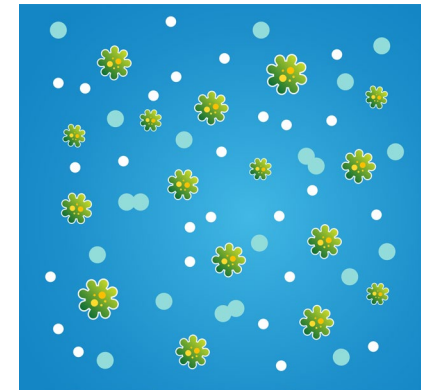
3. Deactivate impact



4. Restoring oxygen exchange



5. The process of splitting and oxidation



6. Restoring ecosystem



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The use of “Econadin” biosorbent

- Oil spill clean-up on water
- Bioremediation and cleaning of oil-contaminated soil and ground
- Restoration of beaches after oil spills, including sand purification
- Cleaning of various solid surfaces, including metal structures, concrete, and asphalt, from both new and longstanding petroleum stains
- Treatment of oily wastewater



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The elimination of film of oil pollution on the water surface



Biotechnological method applying "Econadin" biological product used in a single comprehensive solution for oil spill response after the gathering of the main pollution

- containment booms and
- mechanical means (skimmers).



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Oil spills immediately isolated by special booms and skimmers "ECONAD"

Oil spills are immediately contained using special booms and skimmers from ECONAD.

The bioproduct "Econadin" is then applied to clean the water surface, utilizing its sorption properties to absorb harmful oil hydrocarbons. This is achieved by non-pathogenic oil-degrading bacteria immobilized on an organic carrier.

The biosorbent "Econadin" can be manually /automatically spread over the water surface, with oil absorption starting within minutes after application. It functions effectively across a wide temperature range. The absorbed petroleum products are subsequently biodegraded by the immobilized microorganisms.

"Econadin" can also be applied directly from a ship or dispersed onto the water surface using a helicopter.



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Sorbent dispenser

Sorbent dispenser "ECONAD" is designed for mechanization of works on the spray (spraying) bio-sorbents like "Econadin" on water and solid surfaces, contaminated by oil or hydrocarbons. Dispenser is characterized by high autonomy and high performance, designed to ensure maximum comfort of the operator (user).

As it was before...



What is possible today.



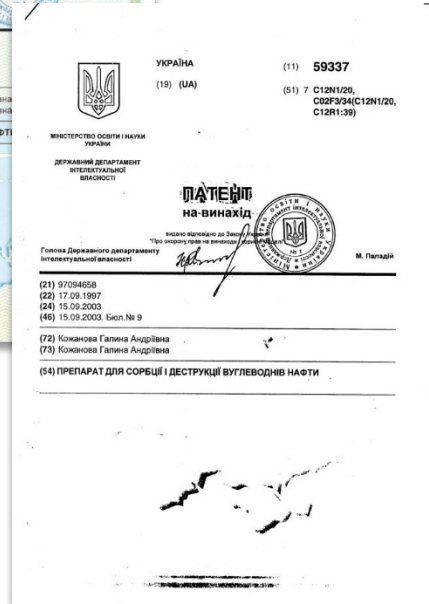
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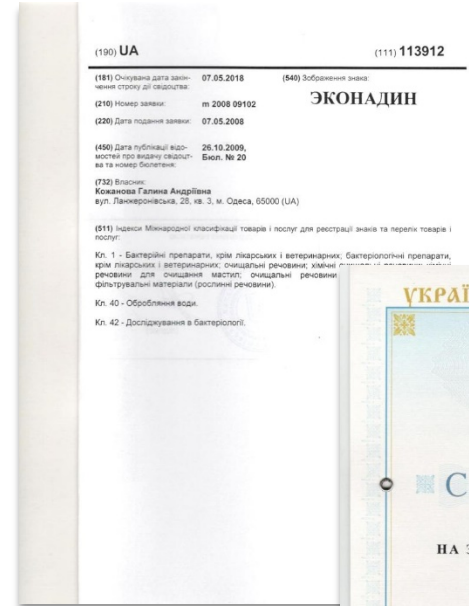


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BIOSORBENT "ECONADIN" AND "ECONADIN'S BIOTECHNOLOGY" PATENTED IN UKRAINE AND RUSSIA.



BIOSORBENT "ECONADIN" AND "ECONADIN'S TECHNOLOGY" CERTIFIED IN UKRAINE AND RUSSIA.



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Concluding on biosorbent "Econadin"



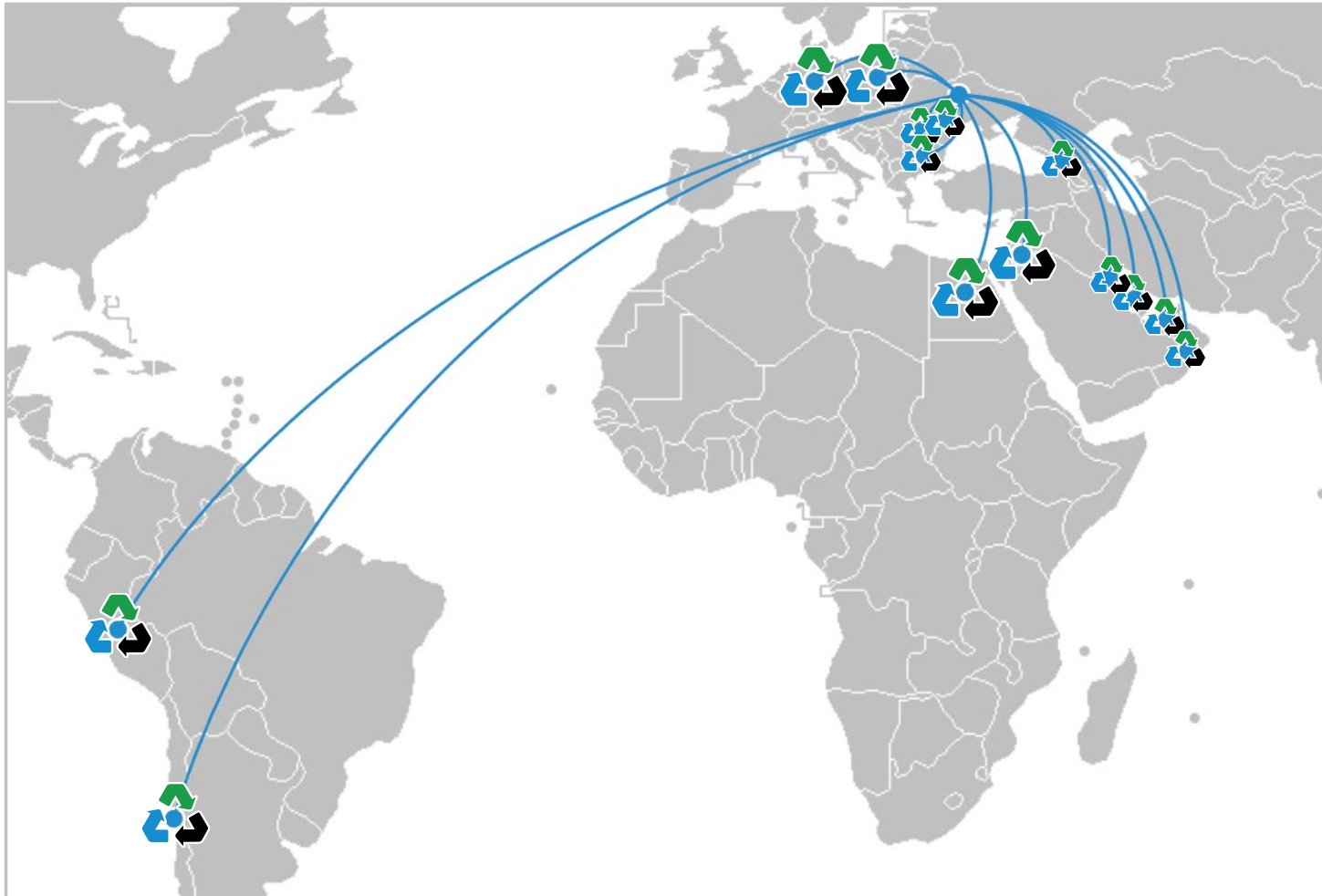
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Geographical application of Econadin`s technology



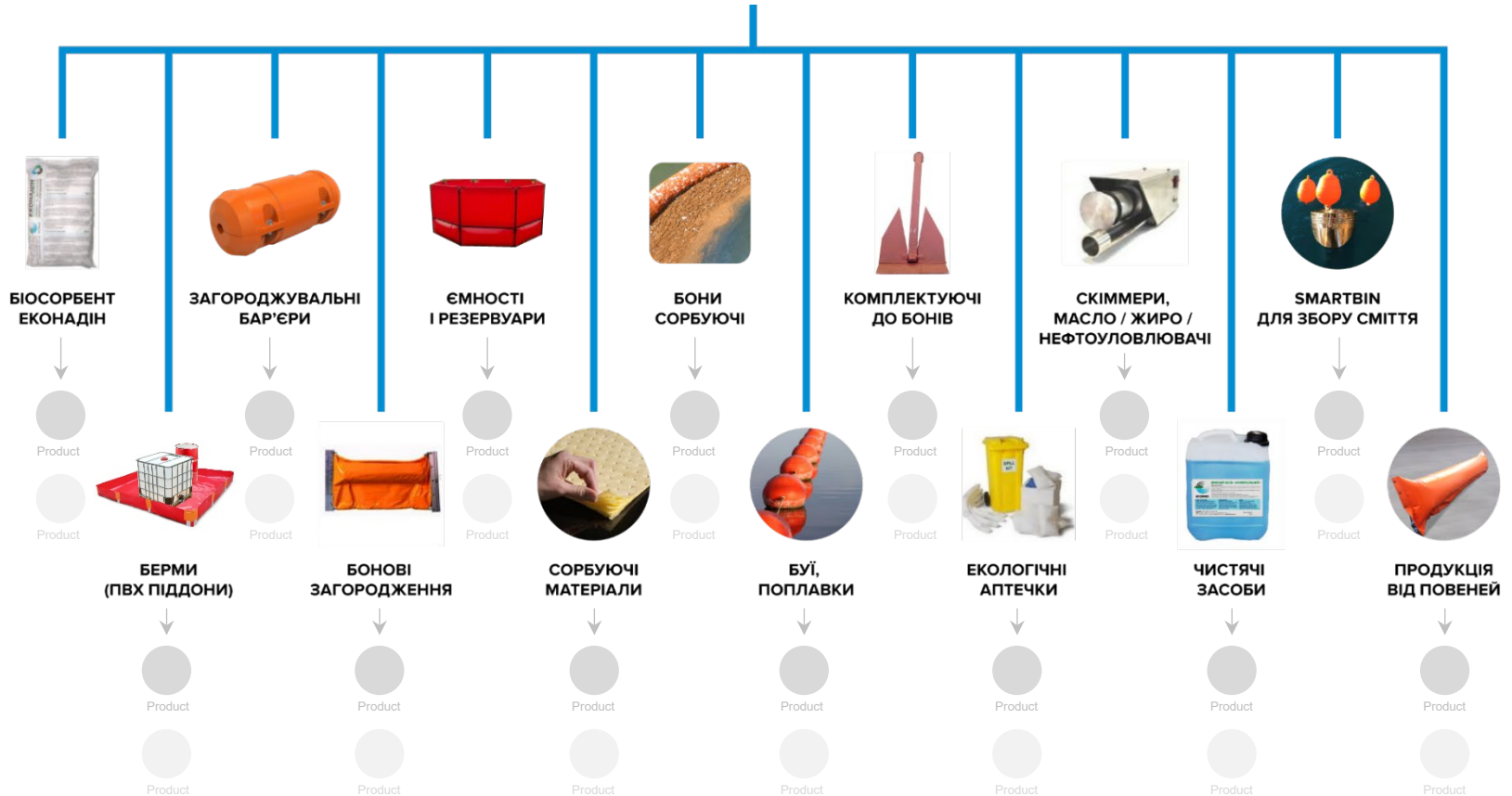
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Our products











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The main clients of our company

-  sea and river ports;
-  oil and gas industry;
-  chemical industry;
-  industrial plants and factories;
-  aviation companies;
-  railway companies;
-  transport companies, filling stations;
-  other facilities where petroleum products are used.

How does our company receive orders?

Clients can reach us through our website, social networks, official email, by phone, or during a personal meeting with one of our managers.

Our managers are actively engaged in promoting the company's products and services. Whether through cold calls, email marketing, or maintaining relationships with our regular customers, every task is treated as a priority.



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Price

Our prices are highly competitive. Some products, such as air lifting bags, oil spill berms or collapsible bunds and skimmers, offer greater price advantages.

Transportation and Logistics

We have the warehouse in Lviv (on the western boarder of Ukraine, 25km from the border exactly). Also we have warehouses in Bulgaria (Varna) and in Romania (Galaz). The main office is still in Odessa.

So, the products can be supplied fast and efficient. Specifically in the emergency cases

Rewards

We are always seeking to build strong, mutually beneficial partnerships with distributors.

We offer significant discounts for our dealers, with savings of up to 40%, enabling you to maintain healthy margins.

Partnering with us gives you access to high-quality, innovative products at competitive prices and the chance to cultivate a long-term, successful business relationship.



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THANK YOU!



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