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**Attention: Editor**  
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**PRODUCT RELEASE**



## Bionetix® Biosurf Uses Nature to Clean Oil Spills on its Own Surf and Turf!

Biosurf is a new biosurfactant treatment from Bionetix® International designed to help naturally clean up the thousands of oil spills that happen annually! It offers high dispersing power and acts as a strong biostimulant to promote hydrocarbon degradation.



Biosurf is an excellent alternative to synthetic surfactants and dispersants commonly used to disperse oil slicks. Surfactants work by breaking oil apart into smaller droplets that are more accessible to natural biodegradation processes. However, their safety is questioned. In contrast,

Biosurf is a non-toxic biosurfactant extracted from plants and fortified with micronutrients that speed up natural biodegradation.



Spraying dispersants is sometimes the only method for removing floating oil that endangers aquatic life and sensitive shorelines. While natural wave action eventually breaks and disperses the layer of oil on the sea surface, the use of Biosurf speeds up the process in a more sustainable manner than synthetic dispersants.

Synthetic dispersants may remain on the sea floor and bio-accumulate into the food chain, but biosurfactants are themselves biodegradable and break down into harmless by-products.

Biosurf contains an all-natural Rhamnolipid dispersant that can be sprayed on oil slicks or on spills on soil or hard surfaces. It can be used to disperse oil on beaches, rocks, and sea walls, and is especially effective when combined with BCP 35S, which contains organisms that degrade a wide range of hydrocarbons. Old oil spills weathered by rain and other environmental factors raise special difficulties by sequestering hydrocarbon contaminants in the deep pores of soil particles, making them less bioavailable to natural microorganisms. Biosurf safely and naturally increases the bioavailability of these aging spills for enhanced cleanup.



Biotreatment with Biosurf can:

- Help disperse surface oil slicks
- Reduce shoreline hydrocarbon deposits

- Disperse submerged crude oil spills
- Help make hydrocarbons bioavailable to microorganisms for biodegradation
- Provide micronutrients to speed up biodegradation

Whether for soil, slick, or shoreline, the natural power of Biosurf is an important tool to more swiftly and safely disperse oil spills. Biosurf uses nature to clean its own surf and turf!

To read more about this exciting new product, please visit:

**BIOSURF**  
BIODISPERSANT

**BIO-SURFACTANT WITH HIGH DISPERSING POWER AND ACTS AS A STRONG BIOSTIMULANT TO PROMOTE BIODEGRADATION**

**BIOTREATMENT WITH BIOSURF CAN:**

- Help disperse surface oil slicks
- Reduce shoreline hydrocarbon deposits
- Disperse submerged crude oil spills
- Help make hydrocarbon bioavailable to microorganisms for biodegradation
- Provide micronutrients to speed up biodegradation

**PRODUCT DESCRIPTION**

Biosurf is made up of biosurfactants that are extracted from plants. Its dispersing power makes it a great non-toxic alternative to commonly used synthetic surfactants and dispersants. Our all natural rhamnolipid dispersant is designed to be sprayed onto oil slicks and oil spills on soil and hard surfaces, to accelerate the process of natural dispersion and biodegradation. Our dispersant has molecules which have an affinity for two distinct liquids which do not mix, attacking the interfacial tension between them. A part of the surfactant molecule has an attraction to oil, the other part has an affinity to water. This allows for the dispersing power and increases the bioavailability to the natural microorganisms that will biodegrade the contaminants.

**SPECIFICATIONS**

Description:	Dark brownish liquid
Packaging:	4x4L, 20.37kg, 208.82kg, custom packaging available
Bulk Density:	1.02-1.20 g/ml
pH:	3.5-5.5
Nutrient Content:	Contains trace elements such as manganese, boron, iron, magnesium, calcium, potassium, phosphorus, and nitrogen

**FEATURES**

**Oil Slicks**

Spraying dispersants may be the only means of removing oil from the sea surface, particularly to remove the residual after mechanical recovery or when mechanical recovery is not possible. Its use is intended to minimize the damage caused by floating oil, for example to birds or sensitive shorelines.

Natural dispersion of an oil slick occurs when waves and other turbulence at the sea surface cause all or part of the slick to break up into droplets and enter into the water column. The addition of dispersants is intended to accelerate this process. The use of BIOSURF allows for a more sustainable method compared to common synthetic dispersants that remain on the ocean bed and enter the food chain by bioaccumulation.

**Bionetix**  
We work for nature

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To learn more about Bionetix® innovative products, please visit:

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Bionetix® International produces biological waste treatment products that are used in thousands of field applications worldwide. The Biological Series of products—among the earliest products introduced by Bionetix Canada – can be found in countless food preparation and processing locations in the United States, Europe, South America, and Asia. Numerous municipalities around the world have accepted these products. Headquartered in Quebec, Canada; Bionetix International is a subsidiary of Cortec® Corporation. ISO 9001:2000 Certified.

Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2004, & ISO 17025 Certified.

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