

BIOZYMES 1082 BIO-STIMULANT AND DISPERSANT ENHANCES BIO-DEGRADATION



UNLOCK THE MAGIC OF NATURE WITH BIOZYMES 1082 BIO-STIMULANT

Biozymes 1082 Bio-Stimulant & Dispersant is an extracted plant-based biosurfactants. It has excellent dispersing power that is non-toxic which makes the product a great alternative to synthetic-based surfactants and dispersants.

Biozymes 1082 Bio-Stimulant & Dispersant is sprayed directly on to oil slicks, oil spills, on contaminated soil and other surfaces. It accelerates the process of biodegradation in hydrocarbon contaminated soil.

Biozymes 1082 Bio-Stimulant & Dispersant works on shoreline hydrocarbon deposits and submerged oil spills.

FEATURES

- Disperses surface oil slicks
- Reduces hydrocarbon deposits on shoreline
- Disperses submerged crude oil spills
- Offers hydrocarbon bioavailable to microorganisms for biodegradation
- Provides micronutrients to speed up biodegradation

DIRECTIONS

Dilute 1 part of **Biozymes 1082** in 9 parts of water. Apply 10 liters of the mixture to 100m² of surface area for an oil slick on water or shoreline. It can be injected into contaminated soil for bio-remediation purposes.

For best results in bioremediation application, mix **Biozymes 1082** into the water followed by the addition of **Biozymes 1080** microbial product and allow the mixture to activate the spores for a minimum of 20 to 24 hours before applying.

APPLICATIONS

Oil Slicks - Spraying dispersants may be the only means of removing oil from water surfaces and in particular, to remove residual hydrocarbons after manual recovery or when manual recovery is restricted.

Biozymes 1082 is a more sustainable method compared to synthetic dispersants that remain on the ocean bed and enter the food chain through bioaccumulation. The molecular properties in **Biozymes 1082** attack the interfacial tension between two liquids that do not mix. One part of the surfactant molecule has an attraction to oil while the other has an affinity to water. **Biozymes 1082** provides dispersing power and increases the bioavailability to the natural microorganism that biodegrades the contaminants.

Shorelines – **Biozymes 1082** can also be used on shorelines including beaches, rocks and sea walls. Re-application may be necessary where dense hydrocarbon deposits have accumulated.

Soils - when treating an old oil spill that has been weathered by rain and other environmental factors, the hydrocarbon contaminants become sequestered in the deep pores of soil particles. As a result, it reduces the bioavailability of the contaminant to the microorganism that naturally degrades the oil molecules into harmless by-products. By adding **Biozymes 1082** into the contaminated soil, the bioavailability of the contaminants increase, allowing for a higher rate of biological degradation.

PRODUCT CHARACTERISTICS

Description	Dark Brown Liquid
Bulk Density	1.1 – 1.3 gm/mL
pH	3.5 – 5.5
Nutrient Content	Contains traces of manganese, boron, iron, magnesium, calcium, potassium, phosphorous and nitrogen

STORAGE AND HANDLING

Store in a cool dry place. Do not drink. Avoid contact with eyes.

See SDS For More Information

AVAILABLE PACKAGING

- 20L Pail or 200L Drum



Manufacturing Facility:
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