

## 8608-004

# Water Treatment Oil Digester - Blocks

### Description

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- A powerful blend of 12 strains of microbes and natural botanical blends designed to digest hydrocarbons in waste water applications.
- Eliminates rancid odors in treatment water systems.
- A microbe-laden block slowly dissolves and releases billions of microbes that consume a variety of hydrocarbons.
- A consistent, automated system providing continuous treatment.
- Reduces labor time by eliminating dosage and metering pumps.
- Changes the surface of particles from hydrophobic to hydrophilic.
- Converts hydrocarbons into carbon dioxide, water and biomass.
- Bio-based, all-natural and biodegradable.

### Technology Profile

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Number of Different Microbial Strains	12
Microbial Count	50 Billion/gram
Microbial Characteristic	All GRAS Listed
Number of Enzyme Species	7
Enzyme Activity	6,000 u/mg.
pH Activity Range	5-11 pH
Appearance	Green Block
Bioluminescence Test	Positive for Living Cells
Salmonella	Negative
Listeria	Negative
Phosphorous	Non-Detectable

### Technical Information

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Usage	Dilution Ratio	RTU
Physical Properties	Appearance	Solid
	Color	Green
	Fragrance	None
	pH	7
	Shelf Life	Minimum 1 Year
Packaging	8608-004	4 lb.

Bioremediation, Inc.  
PO Box 664  
Knox, IN 46534  
888-242-2898

### Advantages

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The BioRem-2000 Oil Digester™ Blocks are a complete bioremediation system that provides the material for a safe, effective, easy-to-use and significantly lower-cost alternative to off-site disposal of hydrocarbon-contaminated water.

Microbes convert hydrocarbons enzymatically prior to the ingestion of the organic material. It breaks down macroscopic clumps of hydrocarbons into smaller molecules and increases the surface area of the molecules making them more water soluble. The microbes use a process of extracellular and intracellular enzyme production in which enzymes are excreted from the microbial cell. The microbes secrete various enzymes that begin the process of cleavage and digestion of the hydrocarbons. The enzymes chop the long-chains of the hydrocarbons into two carbon units which are used as a source of food for the microbes to reproduce. The resulting by-products are carbon dioxide and water. Once the reaction is complete, the microbes and enzymes break free and attach to another chain of hydrocarbons in order to repeat the same process.

### Application

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There is no set formula that will be effective in every system. All is dependent on the type of environment, the biological and chemical make up of the system. Please consult with distributor and/or manufacturer for the correct dosage for your system.