

From Biobor®,  
the Worldwide Standard  
in Diesel Treatment  
Since 1965



The Best Prescription for Diesel Fuel!

# Marine and Over-the-Road Diesel Performance Additive

**BioborMD®** is a cutting edge marine fuel additive engineered to enhance fuel performance, increase lubricity and lower exhaust emissions. Cetane levels are raised for easier cold starting, fuel lubricity and combustion is increased, while the entire fuel system is cleaned of sludge. These advantages result in more power and torque with less fuel-related down time and maintenance costs.

**Reduces Soot**—**BioborMD®** is the leading soot and emissions reducing additive.

**BioborMD®** reduces up to 94% of soot emissions and prevents carbon deposits on vital engine parts.

**Cetane Enhancer**—Raises the Cetane level up to 6 numbers enabling faster fuel ignition, while combustion improves provide for a more complete fuel burn. Working together, these factors enable fuel to ignite sooner and also burn longer and hotter for a more complete fuel burn. Available horsepower, torque and fuel economy are increased.

**Adds Lubricity**—Low sulfur diesel fuel mandated by the EPA is good for the environment, but puts at risk the lubrication properties of the fuel. The only source of lubrication for injectors and the fuel injection pump is the fuel that flows through it.

**BioborMD®** has been tested and shows an increase in fuel lubricity of 12.5% (Ball On Cylinder Lubricity Evaluator—BOCLE). This increase protects and extends component service life, lowering maintenance costs and down time when compared to the absence of fuel lubricity in low and ultra-low sulfur diesel.

**Anti-Gel**—**BioborMD®** lowers the Pour Point by up to 45° F and the Cold Filter Plug Point (CFPP) is reduced by up to 22° F, maintaining proper fuel flow when the fuel could otherwise gel in unconditioned fuel.

**Prevents and melts ice** that causes frozen blockages and downtime. Once ice is melted, any free water within the fuel system or water absorbed by the fuel are prevented from refreezing. **BioborMD®** adds this “anti-freezing” action to keep the fuel flowing and the engine running.

**Sludge dispersants** break up and dissolve fuel sediment sludge into small enough particles that will pass harmlessly through filters and injectors, enabling your fuel system to operate at peak efficiency with properly atomized fuel spray. **BioborMD®** cleans fuel systems to allow the engine to produce its designed optimum horsepower and torque, further increasing economy.

**Corrosion inhibitors**—with continued use, **BioborMD®**, significantly reduces further fuel system corrosion from occurring, preventing costly leaks and spills.

**Stabilizes the fuel**—**BioborMD®** stabilizes the fuel by keeping it “fresh”, preventing sludge from forming, maintains fuel system cleanliness and provides optimum fuel quality and fuel system efficiency.

### BioborMD® DOSAGE (in ounces)

Fuel to be treated (in gal.)	30	60	90	120
BioborMD® (in oz.)	8	16	24	32
Initial Dosage				
Maintenance Treatment	4	8	12	16

In combination with the world leader **Biobor® JF**, **BioborMD®** allows for the prevention of, and protection against microbial growth (bugs) in fuel systems. In addition, **BioborMD®** enables maximum performance of your engine.



a **GREEN** company

Fuel Additives equal a cleaner engine, better mileage, and less harmful emissions.



HAMMONDS FUEL ADDITIVES, INC.

910 Rankin Road • Houston, Texas 77073 • (800) 548-9166

[www.biobor.com](http://www.biobor.com)



**BIOBOR MD** enhances fuel performance, increases fuel lubricity, lowers exhaust emissions and soot output.

- ✳ **Reduces soot** up to 94%, for cleaner combustion
- ✳ **Increases cetane levels** by 6 points for faster fuel ignition, increased efficiency up to 6.8%
- ✳ **Sludge dispersants clean** the entire fuel system
- ✳ **Lowers Pour Point** to 45° and CFPP to 22° to maintain proper fuel flow
- ✳ **Inhibits corrosion** to protect fuel lines and tanks
- ✳ **Adds lubricity** to protect vital engine parts
- ✳ **Controls water** in fuel mix



Available in 4, 8, 16 and 32 oz containers, 5 gallon pails or 55 gallon metal drums

# BIOBOR®

# FUEL ADDITIVES

# the COMPLETE Biobor® Product Line...

## DIESEL FUEL TREATMENT

**BioborJF® kills hydrocarbon utilizing microorganisms which cause fuel tank contamination**

**BioborJF®** eliminates microbial growth which can clog filters and corrode metal surfaces in diesel and jet fuel systems. **BioborJF®** also increases fuel lubricity, an important aspect since the new EPA-mandated fuels cause a decrease in fuel lubricity. This increased lubricity along with the sterilization of microbial growth in fuel leads to longer engine life, coupled with more efficient engine performance and resultant better fuel mileage.

AVAILABLE SIZES: 8 oz., 16 oz., 32 oz. exact measure bottles, 1 gallon, 5 gallon pail and 55 gallon drum.



## DIESEL FUEL LUBRICITY AGENT

**LubriBor® the super-concentrated lubricity agent for today's low sulfur diesel fuels**

**LubriBor®**, formulated to improve engine lubricity and reduce engine wear, may be used in over-the-road vehicles, boats, industrial applications, construction equipment, mining equipment or farm equipment. **LubriBor®** offsets the loss of precious lubricity in today's EPA-mandated low-sulfur fuels. The low-sulfur fuels are good for the environment, but can increase diesel engine wear. **LubriBor®** eliminates this problem by acting as a super lubricate protecting the engine from wear and maintenance problems.

AVAILABLE SIZES: 16 oz. exact measure bottles, 5 gallon pails and 55 gallon drums



## GASOLINE TREATMENT

**BioborEB® eliminates the harmful effects of ethanol in fuel and increases engine efficiency and mileage**

**BioborEB®** is a specifically formulated treatment for gasoline engines. **BioborEB®** combats the negative effects of ethanol and gasoline fuel blends. Ethanol is extremely corrosive and can be detrimental to your engine if not properly blended with the gasoline in your tank. Over time ethanol will separate from the gasoline in your tank. **BioborEB®** eliminates the problem of fuel phase separation. **BioborEB®** cleans and disperses sludge, increases fuel lubricity and allows for better mileage with more efficient fuel combustion and lower maintenance costs for your engine.

AVAILABLE SIZES: 4 oz., 8 oz., 16 oz. and 32 oz. exact measure bottles, 5 gallon pails and 55 gallon drums



# HUM-BUG® DETECTOR KIT



# EARLY WARNING!

**Detects microbial fuel contamination which can cause fuel tank corrosion and the clogging of vital fuel system components**

The **Hum-Bug Detector® Kit** is an early warning system for the presence of microbial contamination in your fuel. These Hum-Bugs, (Hydro-carbon Utilizing Microbes), can cause significant damage to your engine and vital fuel system components. If the **Hum-Bug Detector® Kit** detects microbial contamination in your fuel, we recommend the use of **BioborJF®** (our microbiocide additive) to ensure the highest level of fuel quality is maintained in your tank.

For more information or to purchase Biobor® products, call us at (800) 548-9166. Ask for Mike.



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