



## BIOGUARD PLUS 6™

### MULTIFUNCTIONAL DIESEL BIOCIDES (BGDP6)

Microorganisms that grow in diesel fuel systems, such as bacteria, yeast and mold, are known as “bugs.” “Bugs” live in virtually all diesel fuel systems. They live in the water found in all fuel systems and eat the fuel as a nutrient source. Because some water is present in virtually all diesel fuel systems, these systems are a good environment for biological growth. The most common places for “bugs” include the fuel/water interface near tank bottoms, on storage tank walls, and in sediment. Left unchecked, “bugs” will corrode fuel systems and create slime & sludge that plugs fuel filters & fuel lines. The result of contamination is increased maintenance costs and expensive down time.

BioGuard Plus 6™ is the only EPA registered fuel biocide containing a multifunctional high performance diesel additive. BioGuard Plus 6™ contains BioGuard to prevent microbial contamination, fuel filter plugging and other bacteria caused problems.

BioGuard Plus 6™ is also formulated with six additional components to help prevent ULSD & biodiesel related problems to significantly improve heavy-duty diesel engine performance. BioGuard Plus 6™ contains Diesel Guard™ Supreme which is documented to keep injectors, combustion chambers & fuel filters cleaner. It is also documented to improve fuel economy up to 7.6% in SAE Type II testing.

BioGuard Plus 6™ also contains cetane, additional VT-101 lubricity improver, stabilizer, dispersant & corrosion inhibitor to help improve performance, reduce down time, lower maintenance costs & provide better operation of equipment. Having BioGuard™ with additional components in one package reduces the need to use multiple additives, helps you lower costs, and reduces inventory.

#### FEATURES AND BENEFITS

- Prevents bacteria (“bugs”), yeast, mold, and other microbiological growth.
- Cleans up & prevents fuel injector deposits (exceeds L-10 “Superior” performance rating).
- Reduces piston & combustion chamber deposits.
- Documented to improve fuel economy up to 7.6% in SAE Type II testing.
- Stabilizes fuel to extend the shelf life up to 2 years or more.
- Prevents fuel filter & line plugging.
- Improves thermal stability beyond industry standards.
- Prevents rust & corrosion.
- Lubricates fuel injectors & pumps to prevent premature wear.
- Disperses moisture to help prevent sludge, corrosion & extend fuel filter life.
- Increases cetane number, power & performance.
- Reduces harmful exhaust emissions, smoke, odor & transom soot.
- Treat Rates 1gallon:1500 gallons, 1 qt: 375 gallons, 1oz.:12 gallons



# PRODUCT DATA SHEET

## BIOGUARD PLUS 6™

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#### APPLICATIONS

BioGuard Plus 6™ is effective in controlling the growth of bacteria & other microorganisms that breed in all types of diesel fuel, biodiesel blends, and water which cause formation of slime, sludge and acids. It also contains 6 other components formulated to prevent ULSD & biodiesel related problems & significantly improve heavy-duty diesel engine performance. Typical applications include truck fleets, farms, home heat, marine, power generation, railroad and all other on-road or off-road diesel applications.

#### BLENDING RECOMMENDATIONS

The approved dosage is 1 gallon to 1500 gallons of diesel. Do not treat at different dosage. Product should be added to the fuel storage tanks or directly to the equipment fuel tanks prior to adding fuel. Storage tank should have a 20% heel of diesel fuel & be free of excess water &/or sludge. Check fuel filters after use.

#### Treat rate

1 gallon to 1500 gallons

1 quart (32 oz) to 375 gallons

1 oz. to 12 gallons

*To prevent microorganism growth, continuously treat all fuel deliveries with BioGuard Plus 6 at the recommended treatment dosage & keep fuel systems free of water.*

#### SAFETY PRECAUTIONS

When handling this product, persons should exercise caution and wear protective goggles, gloves and clothing. See cautions indicated in the corresponding Safety Data Sheet before handling and storing this product.

#### WARRANTY

We guarantee this product to comply with our published specifications. Since the use of this product is beyond our control, we disclaim responsibility for its performance, handling, use, storage, the results obtained, or any injury of any nature resulting there from. Product warrantee and seller's obligations apply only to replacement of product. Seller assumes no liability for any claim or loss of any other kind. In no event shall seller be liable for indirect punitive, special or consequential damages or expenses. Any warrantee claim shall be governed by and construed in accordance with the laws and jurisdiction of the State of Illinois.

#### TYPICAL SPECIFICATIONS

Color (ASTM D1544) ..... Yellow  
Specific Gravity @ 68° F (ASTM D891) .....0.9590  
Density, lbs./gal. (Calculated) .....8.02  
Flash Point °F, TCC (ASTM D3278).....118  
Additive Pour Point °F (ASTM D97) ..... 15  
Viscosity @ 77°F cSt ..... N/A  
The sulfur content of this diesel fuel additive does not exceed 15 ppm.

#### PACKAGING

Available in bulk, 300 gal. totes, 55 gal., 2/2.5 gal., 4/1 gal. and 12/32 oz containers.

