



VALVTECT® MARINE DIESEL ADDITIVE WITH BIOGUARD™ (VMDA)

ValvTect® Marine Diesel Additive with BioGuard™ is the industry's only EPA registered multifunctional high performance diesel additive containing a fuel biocide. It is formulated to prevent microbial contamination, fuel filter plugging & other bacteria caused problems.

It is also formulated to help prevent ultra low sulfur diesel and biodiesel related problems & significantly improve heavy-duty marine diesel engine performance. Product performance has been documented in ASTM, SAE & engine manufacturer tests.

In addition to biocide this product also contains detergent, cetane, additional VT101 lubricity improver, stabilizer, dispersant, & corrosion inhibitor to help improve performance, reduce down time, lower maintenance costs & provide better operation of equipment. Having all of these components in one package reduces the need to use multiple additives, helps lower costs & reduces inventory.

Continuous use helps provide the following:

FEATURES AND BENEFITS

- Prevents bacteria & other biological growth found in diesel fuel systems & storage tanks.
- Stabilizes fuel for long term storage.
- Extends diesel shelf life up to 2 years or more.
- Improves thermal stability beyond industry standards.
- Prevents fuel filter plugging & extends fuel filter life.
- Prevents rust & corrosion.
- Controls moisture to prevent sludge.
- Lubricates fuel injectors & pumps to prevent premature wear.
- Increases cetane number.
- 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.*
- Increases engine power & performance.*
- Reduces smoke, odor & transom soot.*
- Reduces harmful exhaust emissions.*
- Can be used in all on-road & off-road diesel applications.
- Contains no alcohol.
- Eliminates the need for other fuel additives.
- Treat rate - 1 gallon to 1500 gallons.

* Based on clean up of fuel system deposits & improved combustion from increased cetane number.



PRODUCT DATA SHEET

VALVTECT® MARINE HIGH PERFORMANCE

DIESEL ADDITIVE WITH BIOGUARD™ FUEL BIOCIDES (VMDA)

APPLICATIONS

This diesel additive can only be used to formulate ValvTect™ Marine Diesel by a Certified ValvTect™ Marine Fuel Distributor or Certified ValvTect™ Marine Fuel Marina in good standing. It is specially formulated to prevent biological growth, distillate fuel degradation (oxidation), improve lubricity, prevent corrosion & clean up fuel system deposits. It is recommended for all diesel powered marine engines. It can also be used effectively in on-road & off-road equipment.

BLENDING RECOMMENDATIONS

Product should be added to the fuel transport or storage tank prior to adding fuel. Storage tank should have a 20% heel of diesel fuel & be free of excess water and/or sludge. Check fuel filters after use. This product is required to properly formulate ValvTect Marine Diesel with BioGuard Biocides.

<u>Treat Rate</u>	<u>Detergency</u>	<u>Cetane Number Increase</u>
1 gallon: 1500 gallons	Clean-up & keep-clean	Up To 1.0

Additive performance depends on the specific fuel being treated and should be determined by laboratory testing prior to use.

SAFETY PRECAUTIONS

When handling this product, persons should exercise caution and wear protective goggles, gloves and clothing. See cautions indicated in the corresponding Material 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 warranty 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 warranty claim shall be governed by and construed in accordance with the laws and jurisdiction of the State of Illinois.

TYPICAL SPECIFICATIONS

Color (ASTM D1544).....	6
Specific Gravity @ 60° F.....	.0.8961
Density, lbs./gal. (approx.).....	7.47
Flash Point °F, PMCC.....	149
Additive Pour Point °F.....	+15
Viscosity @ 77° F cSt.....	N/A
EPA Biocides Registration No.	6006-128

The sulfur content of this diesel fuel additive does not exceed 15 ppm.

PACKAGING

Available in Bulk, 300 gal tote, 55 gal drum, 2/2.5 gal cases.