

# MARINE DIESEL ADDITIVE (VMDA)



## **FEATURING BIOGUARD™ FUEL BIOCIDES PREVENTS BACTERIA & OTHER BIOLOGICAL GROWTH FOUND IN FUEL SYSTEMS & TANKS.**

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 eliminates the need to use multiple additives, helps lower costs & reduces inventory. Continuous use helps provide the following:

### **FEATURES AND BENEFITS**

- Stabilizes and 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 and controls moisture to prevent sludge.
- Lubricates fuel injectors & pumps to prevent premature wear.
- Increases cetane number.
- Cleans & prevents fuel injector deposits (exceeds L-10 "Superior" Performance Rating).
- Reduces piston & combustion chamber deposits.
- Improves fuel economy up to 7.6% in SAE Type II testing and increases engine power & performance.\*  
\*Based on clean up of fuel system deposits & improved combustion from increased cetane number.
- Reduces smoke, harmful exhaust emissions, odor & transom soot.\*
- Can be used in all on-road & off-road diesel applications.
- Contains no alcohol.

### **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. It is specially formulated to prevent biological growth, prevent distillate fuel degradation (oxidation), improve lubricity, prevent corrosion, raise cetane number & clean up fuel system deposits. It is recommended for all diesel powered marine engines.

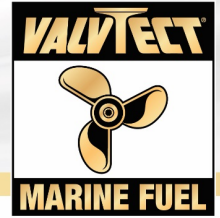
### **PACKAGING**

Available in Bulk, 300 gal totes, 55 gal drums, 2.5 gal containers.

### **PRODUCT SPECIFICATIONS**

- Color (ASTM D1544) – 7
  - Specific Gravity @ 60°F – 0.9438
  - Density, lbs./ gal. (approx.) – 7.88
  - Flash Point °F, PMCC – 135
  - Additive Pour Point °F – +20
  - Viscosity @ 77°F
- EPA Biocide Registration – 60061-128
- The sulfur content of this fuel additive does not exceed 15 ppm.

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

Treat Rate

Detergency

1:1500

Keep Clean/Clean Up

GALLONS OF DIESEL	VMDA OUNCES	OR	VMDA GALLONS	GALLONS OF DIESEL	VMDA OUNCES	OR	VMDA GALLONS
500	43		0.3	8500	725		5.7
1000	85		0.7	9000	768		6.0
1500	128		1.0	9500	811		6.3
2000	171		1.3	10000	853		6.7
2500	213		1.7	10500	896		7.0
3000	256		2.0	11000	939		7.3
3500	299		2.3	11500	981		7.7
4000	341		2.7	12000	1024		8.0
4500	384		3.0	12500	1067		8.3
5000	427		3.3	13000	1109		8.7
5500	469		3.7	13500	1152		9.0
6000	512		4.0	14000	1195		9.3
6500	555		4.3	14500	1237		9.7
7000	597		4.7	15000	1280		10.0
7500	640		5.0	15500	1323		10.3
8000	683		5.3	16000	1365		10.7

## 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.

**DISCLAIMER:** The performance of this product depends on many factors outside the control of the company, including proper application and environmental conditions. Therefore, the company cannot guarantee this product's suitability for your particular purpose of application. To the extent consistent with applicable law, the company EXPRESSLY DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE or otherwise that extend beyond the statements Made on the label, and shall not be liable for special, incidental, or consequential damages resulting from the use or handling of this product, the exclusive remedy being the replacement of this product or refund of the purchase price of the product, at the company's sole discretion. To the extent consistent with applicable law, buyer/user assumes all risk of possession, handling, or use of this material when use and/or handling is contrary to label instructions.