



DIESEL GUARD™ BIODIESEL ANTIGEL DEICER (BDAGDW)

Diesel Guard™ Biodiesel Antigel Deicer is formulated specifically with a biodiesel co-polymer and VT330A™ cold flow improvers, a proprietary Heavy Wax Modifier (HWM) and a wax crystal modifier synergist. It is specially formulated to improve the overall winter operability of fuels blended with higher levels of biodiesel. It significantly reduces the need to utilize kerosene blending.

"SMART" Deicer is a non-alcohol proprietary deicer designed to lower the freeze point of entrained water in storage as well as saddle tanks. Our goal is to get the icing point of the entrained moisture below the CFPP. This keeps ice crystals from plugging the fuel filter and helps keep the vehicle running at sub-zero temperatures. Diesel Guard™ delivers more deicer than competitive products.

The biodiesel being used for blending must meet BQ-9000 and ASTM 6751 specifications while the finished biodiesel blend must meet the ASTM D975 specifications. Varying treat rates are recommended based upon the amount of biodiesel present. Some biodiesel blends may separate if stored without circulation or agitation of the fuel. This is not an additive failure. Proper tank maintenance is strongly recommended due to higher water levels and increased potential for biological contamination associated with biodiesel blends.

FEATURES AND BENEFITS

- **Specially formulated for higher biodiesel blends. Contains co-polymers specially formulated for higher levels of biodiesel blends.**
- **Helps prevent gelling & icing.**
- **Significantly reduces the pour point and cold filter plug point (CFPP) of today's diesel fuels and higher biodiesel blends.**
- **Contains a Heavy Wax Modifier (HWM) and wax anti-settling protection for better cold weather operability.**
- **Reduces the freeze point of entrained water to as low as -50° F.**
- **"SMART" Deicer technology treats storage tanks as well as saddle tanks helping to prevent fuel filter icing. Contains more deicer to lower the freeze point of wetter biodiesel blends.**
- **Reduces the need for costly No. 1 / Kerosene blending.**
- **Improves fuel economy versus BTU robbing No. 1 / Kerosene blending.**
- **Helps prevent corrosion.**
- **Higher biodiesel blending helps meet alternative fuel mandates and tax incentives for using biodiesel.**
- **For B10 blends, Primary Treat Rate 1:1500, Maximum Treat Rate 1:375**
- **For B20 blends, Primary Treat Rate 1:750, Maximum Treat Rate 1:375**



PRODUCT DATA SHEET

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APPLICATIONS

This diesel additive can be used to winterize and improve the quality of high sulfur, low sulfur and ultra-low sulfur biodiesel/No.2 blends containing up to 20% soy-based biodiesel (B20). Typical applications include fleets, farms, power generation, and all other heavy-duty diesel applications.

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 fuel and be free of excess water and/or sludge.

| <u>Treat Rate</u> | <u>% Biodiesel Blend</u> | <u>Cold Temperature Operability</u> |
|-------------------|--------------------------|-------------------------------------|
| 1:1500 | Up to 10% | Normal |
| 1:750 | Up to 10% | Normal to Severe |
| 1:750 | Up to 20% | Normal |
| 1:500 | Up to 20% | Normal to Severe |

Maximum Dosage: Dosage for this product should not exceed 1 gallon per 375 gallons of diesel fuel.

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 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 sellers' 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)..... | 1 |
| Specific Gravity @ 68° F (ASTM D891) | 0.8958 |
| Density, lbs./gal. (Calculated)..... | 7.46 |
| Flash Point °F, TCC (ASTM D3278) | 118 |
| Additive Pour Point °F (ASTM D97) | -20 |
| Viscosity @ 68° F cP (Brookfield)..... | 9.36 |

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



Warning: Cancer –
www.p65warnings.ca.gov

PACKAGING

Available in bulk, 300 gal. totes, 55 gal. and 2.5 gal. containers.