

## *Biodiesel B-100 Cold Flow Improver (Anti-Gel) Revised October 5, 2006*

### BIODIESEL B-100 COLD FLOW IMPROVER (ANTI-GEL) ADDITIVE

After several years of development, we believe that we have the first true anti-gel additive for pure (B100) biodiesel. In general, additives that work for petroleum diesel do not work for biodiesel. Likewise, a true biodiesel additive has almost no effect on petroleum diesel. Our additive is extremely cost effective because so little is used.

For example, 1 quart will treat 185 gallons of pure B-100 biodiesel.

### MIXING RATIO

Our additive **must** be mixed at the ratio of 1 part additive to 750 parts of 100% biodiesel. For example, 8 ounces of conditioner to 45 gallons of fuel, 1 quart to 185 gallons of fuel, 1 gallon of additive to 750 gallons of fuel.

Our Cold Flow Improver, when mixed 750 to 1, will lower the gel point of B100 by approximately 30 degrees F. But here is some surprising news. If you use less or more of the additive, the gel point will rise. That's right, if you use extra, you will get less performance! This seemed so unusual that we had a second lab confirm the results. Same result. **750 to 1 is the optimum ratio, do not use more or less.**

### TWO ISSUES WITH BIODIESEL

There are **two** issues with 100% biodiesel: 1. Pour point, and 2. Filter clogging. These are entirely separate problems and must be dealt with differently. Our additive dramatically lowers the pour point or gel point. It does not completely solve the problem of filter clogging. A 5 to 20 micron filter will clog at low temperatures even though the fuel readily comes out of the tank and through the fuel lines. The only solution that we know of to prevent filter clogging is to keep the filter in a warm place or provide heat to it. If you're using biodiesel to heat your home, be sure the filter is indoors not at an outdoor tank. If your vehicle has a fuel filter on top of the engine, you're probably okay. On the other hand, if you have a 5 micron filter mounted somewhere on the vehicle frame, you will need to apply heat tape and perhaps insulation to keep the filter warm.

If you are blending biodiesel and petroleum diesel or kerosene, then only use enough additive to

take care of the biodiesel portion of the blend. For example, if you have 80 gallons of blended fuel and 40 of those gallons are biodiesel (B50), then only use enough additive to treat 40 gallons, i.e., 7 ounces.

## PRICING

We are the national distributors of this product and only ship in the quantities listed below. If you would like smaller quantities, please contact us and we will put you in touch with one of our stocking retailers.

Case of 12 Quarts	\$186
5 Gallon Pail	217
55 Gallon Drum	2,155
275 Gallon Tote	10,636
330 Gallon Tote	12,764

All prices are quoted FOB New Jersey.

Links to additional information are available below in Adobe Acrobat format (PDF files.)

You probably already have Adobe Acrobat Reader installed on your system, but if not, you can click on this link to download and install the latest version free of charge  
<http://www.adobe.com/products/acrobat/readstep2.html>.

Technical Data Sheet: <http://www.doctordiesel.com/datasheetB100.pdf>

Mixing Chart: <http://www.doctordiesel.com/mixingchartB100.pdf>

Material Safety Sheets: <http://www.doctordiesel.com/msdsB100.pdf>