

## Product Information

# GURODEM-800

---

Demulsifier

### **Field of Usage**

The product GURODEM-300 accelerates the demulsification and separation of water (dewatering) from fuels like the washing process of biodiesel production. In this way throughput and efficiency can be enhanced in settling tanks, gravity and rotation separators (centrifuges).

Preconditions for demulsification are the existence of an emulsion (not a solution) and an adequate difference of density (of the emulsified constituents).

### **Attributes**

For water-in-oil emulsions the product GURODEM-800 leads to an aggregation of the smallest water drops by impact of surface energy. The product is soluble in organic solvents such like alcohols, esters (e.g. biodiesel) or solvent naphtha. There is a haze at temperatures lower than 13 °C. That is no reduction in quality, the effect is completely reversible. Frost-proof. No hazardous material.

### **Components**

The product GURODEM-800 is a blend of alkoxyated fatty amines in rapeseed methyl ester (biodiesel).

### **Application**

The application concentration for GURODEM 800 is 50 to 250 ppm in dependence of emulsion whose water content and demulsification temperature. An overdose could induce a reverse effect – that means a worsening of demulsification or even a emulsification / re-emulsification.

Therefore experimental tests are necessary for evaluation the optimal dosage. A dosage of 50, 100, 150, 200 and 0 ppm GURODEM 800 should be disperse in the emulsion for that tests. A good mixing is manageable by agitation or stirring (300 to 500 upm) in suitable graduated tall tube or bottle or in a tall beaker glass for 2 minutes at least. All samples must treated in the exact same manner. A pre-dilution with 4 to 9 parts of solvent (see above) is recommended for a better demulsifier distribution and for a more precisely dosage. The pre-dilution is also recommended for technical application. A good dispersing into the oil, fuel or biodiesel phase or emulsion is necessary (stirring for some minutes).

Please heat completely through at room temperature before use.

### **Physical Properties**

Density: . . . . 0.90 - 0.91 g / cm<sup>3</sup>

Melting / Freezing point: . . . . < -10 °C

Flashing point: . . . . 180 °C

### **Delivery Form**

6 x 20 Ititres PE cans (120 litres). 190 liters in steel drum. 925 liters in container (IBC).

### **DIN / ISO 9001 accredited manufacturer.**

This information is based on our present state of knowledge and is intended to provide general notes on this product and its use. It should therefore not be construed as guaranteeing specific properties of the product described and does not justify a contractual legal relationship. The user basically accounts for using this product. It is only assigned for commercial usage.

Print: 01.09.2008