

April 1, 2011

# **DSC LIQUID GUAR E (HIVIS)**

## ***LIQUID VISCOSIFIER***

### **DESCRIPTION:**

**DSC LIQUID GUAR E (HIVIS)** is an off white viscous liquid in which quick yielding and high viscosity guar polymer is suspended in an environmentally safe base fluid. The viscous suspension is stable and the shelf life of the suspension is more than three years.

### **APPLICATION:**

**DSC LIQUID GUAR (HIVIS) E** is an environmentally safe product and is designed for viscosifying low-density brines, such as, seawater, 3 to 4 % potassium and sodium chloride. With this suspension the maximum viscosity is obtained within four (4) minutes. The slurry in low-density brines does not sheen in seawater, if accidentally discharged. The oil and grease content of polymer slurry in 2% KCl brine solution is below the environmental regulation limit of 29 PPM.

### **RECOMMENDED TREATMENT:**

**DSC LIQUID GUAR E (HIVIS)** yields within 4 minutes in low-density brines. Viscous slurry can be prepared by pouring the required amount into a brine and mild agitation by a paddle mixer. A chemical or enzyme breaker can easily degrade the polymer for a fracturing job.

### **PHYSICAL PROPERTIES:**

- |  |                  |
|--|------------------|
| 1. Density at 77 <sup>0</sup> F                  | = 8.97 lb/gallon |
| 2. Active polymer in the suspension              | = 3.20 lb/gallon |
| 3. Fann 35 reading @ 300 rpm ( 20 lb/1000gallon) | = 14-15.0 cp     |
| 4. Odor  | = Mild alcohol   |
| 5. LC50 of slurry (30 lb/1000 gallon)            | = 142,200 PPM    |
| 6. Oil & Grease Content of the<br>slurry         | = 12.0 PPM       |

### **PACKAGING:**

**DSC LIQUID GUAR (HIVIS) E** is available in 5-gallon pails, 275, 330 or 550 gallon tote tanks.