**ECOGREEN P**

ECOGREEN* P surfactant is the primary emulsifier in the ECOGREEN ester-base system.

It also performs as a wetting agent and assists in providing high-temperature fluid-loss control. ECOGREEN P surfactant is most effective when used with ECOGREEN S additive as a secondary emulsifier.

**Typical Physical Properties**

Physical appearance ....................................................................................................................................................................................... Brown, viscous liquid
Density .......................................................................................................................................................................................................................... 1.0 g/cm² (20°C)
Flash point ..........................................................................................................................................................................................................>149°F (65°C) (PMCC)

**Applications**

ECOGREEN P surfactant will provide primary emulsification and wetting in the ester system to form a tight, stable brine-in-ester fluid.

ECOGREEN P agent will also provide fluid-loss control in the ECOGREEN system. When used with ECOGREEN S additive as a secondary emulsifier, it will perform more efficiently. Newly mixed muds should contain both materials.

Consult the specific formulations for mixing new muds.

Treatment levels will depend on the specific situation and drilling conditions, but are recommended to be between 2.5 to 9.0 lb/bbl (7.1 to 25.7 kg/m³). Pilot testing is suggested before additions.

**Advantages**

- Provides emulsification and wetting in the ECOGREEN system
- Contains no hydrocarbon solvents
- Contributes to high-temperature fluid-loss control

**Toxicity and Handling**

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described on the Material Safety Data Sheet (MSDS).

**Packaging and Storage**

ECOGREEN P surfactant is packaged in 55-gal (208-L) drums.

Store in a cool, dry location away from sources of heat or ignition.