### Product Specifications

**PRODUCT NAME**

**STAR HIB® SF**

**DESCRIPTION**

STAR HIB® SF high-performance shale inhibitor is a proprietary non-ionic amine designed for use in water-based (WBM) drilling fluids. STAR HIB SF is used in formations that contain reactive clays such as smectite and mixed layer illite/smectite. Unlike conventional shale inhibitors, STAR HIB SF does not require KCl or other salts for inhibition. STAR HIB SF does not contribute to salinity or electrical conductivity of the drilling fluid or filtrate.

**APPLICATION**

- Designed for use in environmentally-sensitive areas
- Equally effective in fresh water-, sea water- or brine-based drilling fluid systems

**ENVIRONMENTAL ADVANTAGE**

- Environmentally compliant for use in all areas
- CEFAS and REACH registered
- PLONOR listed for North Sea use, HMCS Category P, OCNS Group E

**ADVANTAGE**

- Used when drilling in environmentally-sensitive areas where KCl cannot be used or when low salinity needs are required
- Compatible with all common WBM additives and reservoir compliant
- Resistant to contaminants
- Temperature stability up to 149°C (300°F)

**PHYSICAL PROPERTIES**

- Appearance: Clear amber liquid
- Specific Gravity: 1.05 g/cm³ (8.76 lb/gal)
- Freezing Point: -16°C (2°F)
- Water Solubility: 100% soluble

**TREATMENT RECOMMENDATIONS**

- Effective at concentrations as low as 2-4 wt% for most shales and depletion rates are similar to KCl-glycol fluids
- Can be mixed directly into the fluid system through the hopper, straight into the pit or gravity feed dispenser

**HANDLING AND STORAGE**

- Use appropriate PPE and review the SDS before use. Store drums upright.

**PACKAGING**

- STAR HIB SF is available in 55 gal/210 liter drums.