PRODUCT SPECIFICATIONS

**STAR HIB® PLUS**  
Shale Inhibitor

**DESCRIPTION**  
STAR HIB® Plus shale inhibitor is a proprietary inhibitor designed for use in water-based (WBM) drilling fluids. STAR HIB Plus is used in formations that contain reactive clays such as smectite and mixed layer illite/smectite. Unlike conventional shale inhibitors, STAR HIB Plus does not require KCl or other salts for inhibition.

**ADVANTAGE**  
Used when drilling in environmentally-sensitive areas where KCl cannot be used

- Compatible with all common WBM additives and reservoir compliant
- Resistant to contaminants
- Temperature stability up to 149°C (300°F)

**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
- HMCS Category C
- Passes the Canadian Microtox

**TREATMENT RECOMMENDATIONS**  
- Effective at concentrations as low as 3-5 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

**PHYSICAL PROPERTIES**  
- Appearance: Pale Yellow - Amber
- Specific gravity: 1.05 g/cm³ (8.76 lb/gal)
- pH: 11 at 25°C (77°F)
- Water Solubility: 100% soluble

**HANDLING AND STORAGE**  
- Use appropriate PPE and review the SDS before use. Store drums upright.

**PACKAGING**  
STAR HIB Plus is available in 55 gal/210 liter drums.