**PRODUCT DESCRIPTION**

CyberPlus C is an environmentally acceptable concentrated amido-amine (secondary) emulsifier designed for use in all non-aqueous emulsions, diesel oil-based and well as synthetics. It contains no fatty acids as do the standard Plus materials and can therefore be used when the addition of fatty acid is not desired, i.e. higher temperatures and relaxed OBM systems.

**BENEFITS**

- Provides a stable emulsion in a cost effective manner.
- Allows maintenance of lower yield points at higher mud weights in both oil-based and synthetic-based systems.
- Maintains fluid properties under adverse conditions such as salt water flows, high salt content, cement contamination and rapid barite additions.
- Restores desirable properties to contaminated mud.

**APPLICATION**

CyberPlus C is an effective emulsifier for use in all invert emulsion drilling fluids. **CyberPlus C** is effective in both NaCl and CaCl₂ internal phases, as well as in Newpark’s salt-free internal phase invert systems (OptiPhase and CyberPhase). **CyberPlus C** enhances the rapid emulsification of water into the continuous synthetic phase and stabilizes the emulsion in the presence of extremely high salt content. Use of CyberPlus C allows the maintenance of lower yield points in high density systems. Use of **CyberPlus C** varies with the nature of the emulsion and with downhole temperature.

- For relaxed emulsions at moderate temperatures, no fatty-acids are present in the mud. The emulsion can be maintained in a neutral (non-alkaline) environment. Lime, Ca(OH)₂, is not necessary. (Other hole conditions may dictate if excess lime is needed, i.e. in the presence of CO₂ or other acidic gases.)
- If fatty acids are present, either through the addition of OptiMul or CyberMul or when high downhole temperatures break down **CyberPlus C** into fatty acid and lower amide, alkalinity must be maintained with an excess of lime.

**TREATMENT RECOMMENDATIONS**

CyberPlus C is used at about half the concentration of the standard Plus materials. Maintain the concentration between 4—6 lb/bbl (0.5—0.75 gal/bbl). **CyberPlus C** can be added through the hopper or directly into the pits if agitation is sufficient.

**TYPICAL PHYSICAL PROPERTIES**

- Appearance: Dark amber liquid
- Specific Gravity: 0.95 — 0.99 (8.0 lb/gal)
- Flash Point: 205°F (96°C)

**HANDLING AND STORAGE**

Use appropriate hygiene, clothing and personal protective equipment suitable for work being done. Read MSDS thoroughly before using this product.

**PACKAGING**

**CyberPlus C** is available in 55-gallon (208-liter) drums and bulk quantities.