PRODUCT DESCRIPTION
CyberPlus™ emulsifier is an environmentally acceptable liquid blend of polyamide and organic acid emulsifiers and wetting agents used to provide a stable water-in-oil emulsion. It is designed for use in CyberDrill® and CyberPhase™ synthetic-based drilling fluids as the secondary emulsifier when first preparing the fluid system, and as the primary treating agent during drilling operations.

BENEFITS
• Provides a stable, yet cost-effective emulsion
• Allows adjustable concentrations to balance emulsion stability with increased ROP
• 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 drilling fluids

APPLICATION
CyberPlus emulsifier is effective with NaCl, CaCl₂, or NewPhase™ internal phases. The product enhances the rapid emulsification of water into the continuous synthetic phase and stabilizes the emulsion in the presence of extremely high salt content. It should be used in an alkaline environment. An excess of lime, Ca(OH)₂, should always be present in the fluid.

TREATMENT RECOMMENDATION
CyberPlus emulsifier is recommended as an additive in the initial formulation of the CyberDrill and CyberPhase synthetic-based systems. Maintain a concentration of 8-12 lb/bbl (1.07-1.6 gal/bbl). The need for additional treatments is indicated by the presence of water in the HPHT filtrate, and/or low emulsion strength as measured with an electrical stability meter. The emulsifier can be added through the hopper or directly into the pits, providing agitation is sufficient.

TYPICAL PHYSICAL PROPERTIES
Appearance .................................................... Dark amber liquid
Specific Gravity ................................................. 0.90 (7.51 lb/gal)
Flash Point ......................................................... 205°F (96°C)

HANDLING AND STORAGE
Use appropriate hygiene, clothing and personal protective equipment suitable for work being done. Review the MSDS thoroughly before using this product.

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

This document is supplied solely for informational purposes and Newpark Drilling Fluids makes no guarantees or warranties, either expressed or implied, with respect to the accuracy and use of this data.
All product warranties and guarantees shall be governed by the General Terms and Conditions.