

MEGADRIVE S

Secondary high-performance OBM emulsifier

APPLICATIONS

- Oil-based drilling systems

BENEFITS

- Reduces initial mixing and maintenance costs by reducing the amounts of other surfactants needed
- Helps prevent water in HPHT filtrate, results in reduced HPHT fluid loss
- Counteracts the adverse effects of water and solids contamination
- Improves thermal stability, rheological stability, filtration control, and contamination resistance of oil-base muds

FEATURES

- Multipurpose for use in a wide variety of oil mud systems

The MEGADRIVE S* secondary high-performance OBM emulsifier is a concentrated and powerful emulsifier with drill solids wetting capability designed to be paired with the MEGADRIVE P* primary high-performance OBM emulsifier for oil-based muds. The MEGADRIVE S emulsifier aids in stabilizing emulsions which leads to better emulsion stability, oil wetting of drill solids, and HPHT fluid loss reduction. It is also useful as an oil-wetting agent for drill solids, thereby reducing the adverse effects of water and drill solids contamination.

Applications

The MEGADRIVE S emulsifier is designed to function as an emulsion stabilizer or secondary emulsifier when used with the MEGADRIL system, which functions in an environment with excess lime. The MEGADRIVE S emulsifier is designed to be paired with the MEGADRIVE P emulsifier in order to optimize fluid performance. Since the MEGADRIVE S emulsifier stabilizes the MEGADRIVE P emulsifier, it results in reduced HPHT fluid loss and aids in fluid stability under different conditions. Concentrations for initial formulations range from 1 to 3 lbm/bbl [2.85 to 8.5 kg/m³], but a pilot test is required for optimum results. The recommended treatment levels depend on the oil-water ratio, anticipated temperatures, desired properties, and the other products used in the formulation.

Limitations

The MEGADRIVE P emulsifier is the recommended co-product for any MEGADRIL system. There should be a 3:1 ratio of MEGADRIVE P emulsifier to MEGADRIVE S emulsifier in typical applications.

Since the MEGADRIVE S emulsifier is used in conjunction with oil, environmental restrictions concerning the use of oils and oil-based fluids should be considered.

Toxicity and Handling

Bioassay information is available upon request. Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Safety Data Sheet (SDS).

Packaging and Storage

The MEGADRIVE S emulsifier is packaged in 55-galUS [208-L] drums and 5-galUS [18.9-L] cans. Store in a dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles.

Typical Physical Properties

Physical appearance	Dark-amber, viscous liquid
Specific gravity	0.98
Flash point via the Pensky-Martens Closed-Cup method (PMCC)	200 degF [93.3 degC]
Pour point	-14.8 degF [-26.0 degC]