MDF MUL I

Primary Emulsifier for OBM

General Description

MDF MUL I is a specially formulated modified crude tall oil in diesel designed to create stable emulsions of water and brine in refined or crude oil, esters, ethers, synthetics, mineral oil, or other hydrocarbons. It lowers interfacial tension between oil and brine and stabilizes emulsions of water in oil. Shales and clays can be drilled with gauge hole and increase of hole penetration.

Treatment Rate, Typical

2 - 12 pounds per barrel, depending on the stability requirements, synthetic or ester/ether oils may require additional MDF MUL I. Salinity and calcium content of the water may affect emulsion properties/rheology. Pilot tests should be run to verify treatment. JET MUL 102 Secondary Emulsifier/Oil Wetter may be added for further stability and improved oil wetting. Stability of the emulsion can be adjusted by varying the concentration of MDF MUL I emulsifier. Higher temperature may require more emulsifier for stability.

Physical Properties, Typical

Appearance	Dark amber liquid
Specific gravity	0.95
Flash point	>73.8 °C (165 °F)
Pour point	21 °F
Viscosity	700-900 cP
Solubility	Insoluble in water
Activity	70%
Odor	Fatty

Packaging

MDF MUL I is available in 5 gallon pails, 55 gallon drums, 275 gallon IBC totes, 330 gallon IBC totes, and bulk transport loads from Momentum Drilling Fluids.

Product Data Sheet

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use.

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