

ONE-MUL

Liquid emulsifier package

The ONE-MUL* liquid emulsifier package provides excellent emulsion stability, filtration control, temperature stability, and preferential wetting of solids by its continuous phase. The package can be used as the emulsifier in various invert-emulsion systems, including WARP DRY* high-density colloidal suspension technology and the RHELIANT PLUS* organophilic, thermally stable, flat-rheology invertemulsion drilling fluid system. When using the ONE-MUL package, wetting or secondary emulsifiers are not required.

Depending on the required system properties and other system components, initial system formulations typically require 8 to 10 lbm/bbl [22.8 to 28.5 kg/m³] of the ONE-MUL package. Daily treatments are typically in the range of 0.1 to 1 lbm/bbl [0.3 to 3 kg/m³]. For high-temperature (>300 degF [150 degC]) applications, initial system formulations require 8.75 to 14.0 lbm/bbl [25 to 40 kg/m³].

Typical Physical Properties

Physical appearance.....	Amber liquid
Relative density.....	0.9–1.0
Flash point.....	>212 degF [>100 degC]

Applications

- Primary emulsifier
- Secondary wetting agent
- Filtration control

Benefits

- Improves emulsion stability
- Reduces gel strength
- Enhances thermal stability and contamination resistance
- Maintains HPHT filtration control
- Minimizes dispersion tendencies of reactive clay solids

This document is supplied solely for informational purposes and M-I LLC 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 Standard Terms of Sale. Nothing in this document is legal advice or is a substitute for competent legal advice.

Eastern Hemisphere
 Gamle Forusvei 43
 N-4033 Stavanger,
 Norway
 Phone: +47-51-57-73-00
 Fax: +47-51-57-74-51

Western Hemisphere
 P.O. Box 42842
 Houston, Texas 77242-2842
 Phone: 281-561-1300
 Fax: 281-561-1441
 www.miswaco.slb.com



A Teniz Service M-I SWACO Enterprise



Features

- Effectiveness in the presence of contaminants over a wide range of densities and temperatures
- Rheological profile that aids in preventing barite sag
- Low impact on geochemical data and interpretations
- Temperature stability to >350 degF [>175 degC]

Toxicity and Handling

Handle as an industrial chemical, wear personal protective equipment, and observe the precautions described in the material safety datasheet (MSDS). The harmonized offshore chemical notification format (HOCNF) is available in the NEMS Chemicals® management tool and database. Bioassay information is available upon request.

Packaging and Storage

The ONE-MUL package is contained in 55-galUS [108-L] drums and in 164-galUS [1,000-L] totes. This package should be stored away from heat and ignition sources. The container must be kept closed at all times and away from heat, sparks, and flames, and other incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping, or stacking.

This document is supplied solely for informational purposes and M-I LLC 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 Standard Terms of Sale. Nothing in this document is legal advice or is a substitute for competent legal advice.

Eastern Hemisphere
Gamle Forusvei 43
N-4033 Stavanger,
Norway
Phone: +47-51-57-73-00
Fax: +47-51-57-74-51

Western Hemisphere
P.O. Box 42842
Houston, Texas 77242-2842
Phone: 281-561-1300
Fax: 281-561-1441
www.miswaco.slb.com



A Teniz Service M-I SWACO Enterprise

Schlumberger