

INFORMATION

OIL AID-MS-3

MICELLAR MUTUAL SOLVENT

DESCRIPTION

OIL AID-MS-3 is a micellar mutual solvent for acid in well cleanout and stimulation treatments. OIL AID-MS-3 provides excellent surface tension and interfacial tension reduction. OIL AID-MS-3 converts acid to a micellar system, which is a more powerful and effective solvent for acid stimulation having the following properties:

- Water Wetting
- Solids Suspension and Dispersancy
- Demulsification
- Non-Emulsification
- Water Block Removal

OIL AID-MS-3 significantly assists acids in penetrating, breaking down, and dispersing oily sludge and paraffinic and asphaltene deposits. OIL AID-MS-3 helps restore production capacity in oil wells and injectivity in injection wells. The typical properties are:

Form	Pale, Yellow Liquid
Density @ 60 °F	7.67 lbs/gal
Flash Point	57 °F
Pour Point	30 °F
pH 1% solution	2.0 - 3.5
Solubility:	

Fluid	Concentration	
	5%	20%
5% HCl	D	S
7.5% HCl	SEP	S
15% HCl	SEP	S
28% HCl	SEP	S
12/3% HCl/HF	SEP	S
9/6% HCl/HF	SEP	S
10% Acetic Acid	S	S
25% Acetic Acid	S	S
50% Acetic Acid	S	S
60% Acetic Acid	S	S
High TDS Brine	SEP	SEP

Fresh Water	SH	S
Isopropanol	S	S
Crude Oil	S	SEP
Toluene	SEP	SEP
Xylene	SEP	SH
Kerosene	SEP	SEP

S-Soluble, SEP-Separates within 1 hour, SH-Soluble with Haziness, D-Dispersible

APPLICATION

OIL AID-MS-3 Mutual Solvent is a proprietary blend of specialty additives and solvents that has been designed for use in acid for the removal of skin damage at or near the face of the wellbore in producing and injection wells.

When injected down hole, a micellar acid solution made with OIL AID-MS-3 will penetrate, break down, and disperse oil, sludge, and paraffin deposits which block pore spaces. OIL AID-MS-3 acid solutions will break emulsions and water blocks, disperse solids, and leave the formation in a water wet state facilitating increased productivity or improved injectivity.

In producing wells, OIL AID-MS-3 Mutual Solvent is typically used in the range of 3 to 10 percent by volume of acid. The treatment volume should be calculated to allow for penetration of about 3 feet into the reservoir.

Usually, this is approximately 0.5 to 1 bbl of acid per foot of pay zone. The acid solution should be squeezed away slowly and displaced beyond the perforations into the producing zone. The well should be shut in for a period of time when using hydrochloric/hydrofluoric acid mixtures (mud acid). This modified treatment allows time for the hydrofluoric acid to work on silica.

NOTE: Acidizing solutions containing OIL AID-MS-3 Mutual Solvent may require higher dosages of acid corrosion inhibitor than typical acidizing fluids.

SHIPPING AND HANDLING

OIL AID-MS-3 Mutual Solvent is shipped as a Flammable Liquid in 55 gallon epoxy-phenolic lined steel drums and is available in bulk. A Material Safety Data Sheet is available upon request.

OIL AID-MS-3 is a Messina trademark