INFORMATION

OILAID-MS-2

MICELLAR MUTUAL SOLVENT

DESCRIPTION

OILAID-MS-2 is a micellar mutual solvent for acid in well cleanout and stimulation treatments. OILAID-MS-2 provides excellent surface tension and interfacial tension reduction. OILAID-MS-2 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

OILAID-MS-2 significantly assists acids in penetrating, breaking down, and dispersing oily sludge and paraffinic and asphaltene deposits. OILAID-MS-2 helps restore production capacity in oil wells and injectivity in injection wells. The typical properties are:

Form	**Amber, liquid**
Density @ 60°F	**7.96 lbs/gal**
Flash Point	**165°F**
Pour Point	**-50°F**
pH 1% solution	**6.0 - 7.0**

Solubility:

Fluid	Concentration	
	5%	20%
5% HCl	S	S
7.5% HCl	S	S
15% HCl	S	S
28% HCl	S	S
12/3% HCl/HF	S	S
9/6% HCl/HF	S	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

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

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

APPLICATION

OILAID-MS-2 Mutual Solvent is a 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 OILAID-MS-2 will penetrate, break down, and disperse oil, sludge, and paraffin deposits which block pore spaces. OILAID-MS-2 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.

RECOMMENDED TREATMENT

In producing wells, OILAID-MS-2 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 OILAID-MS-2 Mutual Solvent may require higher dosages of acid corrosion inhibitor than typical acidizing fluids.

SHIPPING AND HANDLING

OILAID-MS-2 Mutual Solvent is shipped as a Combustible Liquid in 55 gallon epoxy-phenolic lined steel drums and is available in bulk. A Material Safety Data Sheet is available upon request.

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