

**MS-SUPERCLEAN™**

**MS-Superclean** is a nonionic non-emulsifier which is soluble in hydrocarbon base fluids and very dispersible in aqueous base fluids.

**APPLICATION**

**MS-Superclean**'s primary use is as a non-emulsifier in fracturing and acidizing fluids. It is effective at a dosage of .05% to .2% in fracturing fluids and .1% to .5% in acidizing fluids. It is extremely cost effective due to its low cost per gallon and its effectiveness in functioning at a low concentration.

**PERFORMANCE**

**MS-Superclean** can be used as a non-emulsifier in all aqueous fluids including acidic systems with proper pretesting; can also be used as a non-emulsifier in all hydrocarbon based fluids; and can be used to break emulsions in formations, fractures and the entire well system. It is nonionic and is compatible with other additives commonly used in well treatments.

**TECHNICAL FEATURES AND ADVANTAGES**

- Effective in preventing emulsions when used in acidic fluids at a dosage of 0.1% to 0.5% by volume.
- Effective in preventing emulsions when used in aqueous fracturing fluids at a dosage of 0.05% to 0.2% by volume.
- Can be used as a non-emulsifier in hydrocarbon based fluids at a dosage of 1% by volume.
- Can be used to break emulsions at a dosage of 1% by volume. The carrier should be based on the emulsion external phase, eg diesel or xylene for oil external emulsions and aqueous carrier fluids for water external emulsions.
- Water wets both sandstone and limestone formations which improves acid reaction with formation solids and improves relative permeability to hydrocarbons.

**TYPICAL PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** Clear liquid

**Odor** Slight Alcohol

**Boiling Point (760 mm Hg)** 190°F (88°C)

**Freezing Point** N.D.

**Vapor Pressure** N.D.

**Specific Gravity** 0.9451

**Solubility in Water** Very Dispersible

**Solubility in Hydrocarbon** Very Dispersible

**Evaporation Rate** >100

**SAFETY AND HANDLING**

Avoid skin and eye contact, inhalation or ingestion. If exposed, wash skin with soap and water, flush eyes with water and seek medical assistance. If ingested, seek medical assistance. Remove contaminated clothing and wash before reusing. Have adequate ventilation or use proper respirator. Wear protective face shield. Dispose of according to applicable regulations. Consult MSDS prior to use.

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