



Technical Data Sheet

Emulsion Breaker DR-1511

General description:

Emulsion Breaker DR-1511 can be used to treat light and medium, ASP and steam flood systems, EOR – polymer flood systems, slop oil, oil sands, naphthenic crude and fluid and solid separation.

Emulsion Breaker DR-1511 Demulsifier base technologies provide value through dry export oil, rapid water drops, optimized process control, low salt in crude, oil recovery of crude processing waste and sludge, high quality effluent water for disposal re-injection, and the reduction / elimination of high viscosity emulsions.

Farsa Group has expert personnel that will guide you through the best way to dose product and to define the specific challenges caused in particular by naphthenic acids, EOR chemicals and wetted solids, and develop the optimum treatment solution to ensure your operation runs at maximum efficiency.

Application:

Emulsion Breaker DR-1511 may be applied by continuously injecting between 50 to 150 ppm of the product down the annular space of a producing well via side stream bleeder arrangement, based on the total daily volumes of crude produced. Other applications may include continuous injection into a header system upstream of a free-water knock-out or a heater treater, or upstream of a high-pressure pump in saltwater disposal or injection system. Treatment rates should be optimized by closely monitoring emulsion level at control locations.

Farsa Group technical service team can help in formulation troubleshooting and product recommendation for specific oilfield condition.

Batch treatments (at various concentrations) with **Emulsion Breaker DR-1511** are successful in producing wells with sufficient annular fluid to act as a chemical reservoir which will provide a slow, continuous feed of inhibitor into the produced fluids. Normally, one or two batch treatments per month are recommended for effective control.

Benefits:

- ✓ Special designed for light and medium Crude oil with high water content
- ✓ Superior emulsion breaker – works at low concentration
- ✓ Excellent silica and silicate product
- ✓ Demonstrates excellent emulsion separation and other multivalent ion tolerant behavior
- ✓ Effective in crystal modification and offers strong dispersant properties



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- ✓ Good stability with freeze-protecting solvents, such as ethylene glycol
- ✓ Minimizes production downtime due to emulsion related events by accurately monitoring crude / water concentrations, which will lead to treatment cost optimization
- ✓ Possibility to monitor system for trending
- ✓ Controls all types of emulsion
- ✓ Can be used in low temperature systems
- ✓ Winterized to - 50 °C (could be increased on request)
- ✓ Completely soluble in brines at usage concentrations
- ✓ Temperature stable up to 85°C
- ✓ Can be traced by chemical residuals

Physical properties:

Property	Value
Physical appearance	Clear to pale-yellow to dark liquid
Specific Gravity, 20 °C	0.92-0.96
pH (Neat)	6-8
Solubility	Completely soluble in water and alcohol
Pour point	(-36 °C)
Freezing point	(-55 °C)
Flash point	12 °C

Material compatibility:

For material compatibility, please refer to the Farsa Group materials suitability guidelines or contact your local representative to obtain this information

Handling and Storage:

Read the label and Safety Data Sheet (SDS) for complete handling information before using or storing this product.

Feeding and Dosage:

The dosage is controlled proportionally to the feed water flow. Standard metering pumps are used. Fitting materials are PE, PP or coated steel. In order to avoid biological fouling, the containers have to be cleaned from time to time with a 10 % sodium bi-sulphate solution.

Emulsion Breaker DR-1511 should be fed on a continuous basis at point in the system that will allow good mixing of the chemical into the produced water. Dosage rates will vary depending on system conditions and the severity of the problem.



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The required dosage level depends on the operating conditions and water composition and varies in the range of 50 – 120 ppm as delivered.

Principal uses:

Emulsion Breaker DR-1511 may be used in producing wells, surface water handling systems, and disposal / injection wells.

Shipping:

This material can be shipped in a variety of containers including drums, returnable totes and/or in bulk.

Contact your Farsa Group representative for shipping options and net container weights.

Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.