



PRODUCT DATA SHEET

ECONO-MAX-PCS

PERMANENT CLAY CONTROL ADDITIVE

GENERAL INFORMATION

ECONO-MAX-PCS is a permanent clay control additive for use in oilfield applications. It is designed to provide long term protection from the swelling of water sensitive clays.

PHYSICAL PROPERTIES

Density	8.84 lbs/gal
Freeze Point	<-20°F
Solubility in Water	Soluble
Solubility in Diesel	Insoluble
Appearance	Amber, slightly viscous liquid
Odor	Fishy
Flash Point	>200°F

CHEMICAL DESCRIPTION

ECONO-MAX-PCS contains a poly-cationic polymer that prevents the swelling of clays during aqueous treatments and also binds strongly to the formation for long term protection. Econo-Max-PCS is effective in workover fluids, acid treatments, and stimulation treatments.

RECOMMENDED USES

Treatment concentrations will vary depending upon the potential for clay swelling in the formation. Typical rates range from 1 to 5 gallons of Econo-Max-PCS per thousand gallons of fluid. It is not necessary to dilute Econo-Max-PCS or run in conjunction with a temporary clay stabilizer. Econo-Max-PCS is pre-blended for immediate use.



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LIMITATIONS

In some cases, **Econo-Max-PCS** may interfere with the crosslinking mechanism in gelled fluids. This is especially true of metal crosslinkers such as titanates or zirconates. Due to the strong cationic nature of this product, it is not recommended that strongly anionic materials be added together with **Econo-Max-PCS**. Pilot testing is strongly recommended.

PACKAGING

ECONO-MAX-PCS is obtainable in 55 gallon drums, 264 & 317 gallon poly totes and bulk.

DOT information: Not DOT regulated.

Please read and understand the Material Safety Data Sheet (MSDS) before using this product.

This information relates only to the material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer any warranty against patent infringement.



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