



# PRODUCT DATA SHEET

## ECONO-MAX CLAY CONTROL ADDITIVE

### GENERAL INFORMATION

**ECONO-MAX** is a highly concentrated liquid clay control additive for use in oilfield applications. Unlike many other similar products, **ECONO-MAX** is non-toxic and readily biodegradable, making it the most environmentally friendly product available.

### PHYSICAL PROPERTIES

Density	9.02 lbs/gal
Solubility in Water	Soluble
Solubility in Diesel	Insoluble
Appearance	Clear, slightly viscous liquid
Odor	Fishy
Flash Point	>200°F

### CHEMICAL DESCRIPTION

**ECONO-MAX** contains a very high concentration of non-surface active organic salts in an aqueous solution. The product freezes below -20°F.

### RECOMMENDED USES

**ECONO-MAX** can be used in any application where dry potassium chloride would be applied. If used in cementing, **ECONO-MAX** will still stabilize clays but will not accelerate the set of the slurry. **ECONO-MAX** is particularly useful where shipping expense is a significant cost factor.



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**ECONO-MAX**

**LIMITATIONS**

**ECONO-MAX** is designed only as a potassium chloride substitute or "temporary" clay stabilizer, and should not be used without a permanent clay stabilizer in highly water sensitive formations where the permanent stabilizers are ordinarily required. **ECONO-MAX** has no known incompatibilities with common oilfield chemicals

**TREATING APPLICATIONS**

**ECONO-MAX** can be used in the concentration range of 1 to 2 gallons per thousand gallons of base fluid to give the equivalent clay stabilization of 2% dry potassium chloride in most formations. Higher loadings, to 10 gallons per 1000 gallons or more may be used if clay sensitivity is thought to be a source of formation damage.

**PACKAGING**

**ECONO-MAX** is obtainable in 55 gallon drums, 264 & 317 gallon poly totes and bulk. DOT information: Not DOT regulated.

**Econo-Max Performance Data**

Econo-Max is a unique liquid potassium chloride substitute that does not contain filming amines, quaternary ammonium chlorides or polymeric molecules. It is a product that does not interfere with other fracturing fluid additives, friction reducers or foaming agents.

**Capillary Suction Time Analysis**

<b>Fluid</b>	<b>Barnett Shale</b>	<b>Frio Formation</b>	<b>Tempino Formation</b>
Deionized Water	102.5	124.0	433.0
2% KCL	25.8	28.4	12.0
1 gpt Econo-Max	26.6	25.6	13.6
6% KCL	21.8		
3 gpt Econo-Max	24.5		11.2



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## ECONO-MAX

### **Nitrogen Permeability Regain Analysis during Core Flow 1 Inch x 15/16 O.D. core plugs Percent Regain Permeability**

<b>Formation</b>	<b>Gas perm (md)</b>	<b>2%KCL</b>	<b>1 gpt Econo-Max</b>
Lower Taylor	41.4	89.0	89.0
Bentheimer	8.0	94.0	84.0
Caballas	94.4	92.0	89.0
Codell	0.12	15.0	13.0
Olmos	0.02	81.0	85.0
Frio	0.09	100.0	89.0
Redfork	0.02	96.0	100.0
Smackover	0.01	14.0	48.0
Hosston	1.1	92.0	92.0
Lewis	11.8	94.0	96.0

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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