



# CHEMBREAK ECA

## POLYMER ENZYME BREAKER

PRODUCT  
DATA

**CHEMBREAK ECA** is a free-flowing, water-soluble enzyme blend designed to consume a wide range of natural and semi-synthetic polymer chains.

### FEATURES AND BENEFITS:

- Has a citric acid buffer and should buffer the pH to 4.0-5.0.
- Offers a cost-effective method of breaking polysaccharide polymers. This can be done without using liquid acids, bleaches or liquid oxidizing agents.
- Used for cellulosic, guar and starch-type polymers.
- Will not break Kelzan<sup>®</sup> XCD Polymer or other xanthan polymers such as Millzan D.
- Reduces viscosity before flocculating or land farming.
- Provides an effective, clean, economical method for reducing viscosity of polymer-based muds.
- Used for a soak solution to spot across the production interval to aid in cleaning up polymer filter cake and residual filtrate.
- Not expected to cause formation damage if pumped down hole to break in-situ polymers.

### RECOMMENDED TREATMENT:

1.0 kg/m<sup>3</sup> is usually required to break normal systems. The temperature should be <60°C and the pH ~ 6.5. Do not use strong mineral acids to buffer this product as a pH <3.5 will totally denature the enzyme. On standing, the viscosity will usually reduce within 24 hours. Soak solutions, may be made up in KCl brine. It is advised to perform a pilot test on the fluid prior to addition. The more complex the polymer chain, the more time required to break the polymer.

### PHYSICAL PROPERTIES:

Appearance:	White powder; odourless
Specific Gravity:	1.540
Solubility:	Soluble in water
pH:	2.6 (10% solution)

### MIXING/HANDLING:

Mix through a standard mud hopper over one circulation so that breakers will be dispersed evenly throughout the entire polymer system. Refer to the MSDS for specific precautions and handling requirements.

**MICROTOX<sup>®</sup> THRESHOLD: TBD**

**PACKAGING: 20L pail / 32 pails/pallet**



Right product. Right place. Right time.

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