

GBC-1

Filter cake breaker catalyst

Description

GBC-1 catalyst is an optional component of the ORCA™ for WBM system used for removal of WBM damage and filter cakes in the reservoir. GBC-1 accelerates the rate of acid generation in the presence of acid precursors.

Benefits

- Enables safe transportation and handling as a non-hazardous chemical.
- Highly soluble in and compatible with a wide range of completion brine types and brine densities.
- Improves controlled timing for breaking WBM filter cakes requiring shorter break times.

Application

GBC-1 catalyst can be used in a wide range of downhole stimulation and completion applications in oil and gas production wells and water and gas injection wells. For treating drilling mud damage within the reservoir arising from drilling with water-based muds or drill-in fluids.

Common base fluids for ORCA for WBM include fresh water, sea water, monovalent and divalent completion brines.

Typically used in wells with a bottom hole static temperature in the upper range. GBC-1 increases the rate of acid production from acid precursor chemicals incorporated into ORCA for WBM formulations.

Treatment Recommendation

Prior to utilizing GBC-1 or other components of the ORCA for WBM system, lab testing is required to test for compatibility and effectiveness against the specific type of damage anticipated downhole. Concentration of GBC-1 is typically up to 2.0% v/v in completion brine for most applications.

GBC-1 should be used in combination with ORCA HA, ORCA FG, or ORCA FG3. GBC-1 is compatible with other ORCA for WBM products including Cleansorb™ polymer breakers to deliver simultaneous downhole acidizing and polymer breaker treatments.

Typical Physical Properties

Appearance..... Clear, solids-free liquid
 pH (1% solution)..... 9.0 - 11
 Specific Gravity..... 1.57(13.1 lb/gal)
 Water Solubility..... Fully miscible in water and most brines

Handling and Storage

GBC-1 is stable for at least 36 months at ambient temperature if stored in the sealed containers as supplied and out of direct sunlight to avoid product being heated for prolonged periods.

Avoid contact with skin and eyes. Use appropriate hygiene, clothing, and personal protective equipment suitable for work being done. Review the SDS thoroughly before using this product.

Packaging

GBC-1 is available in 250 kilogram (158 liter) plastic drums as required 1000-kilogram (633-liter) IBCs as required.

