ORCA HA

Cleansorb A NEWPARK Company

Organic Acid Precursor

Description

ORCA[™] HA organic acid precursor is a component of the ORCA for WBM system used for removal of WBM damage and filter cakes in the reservoir. Acid generation is delayed allowing the ORCA for WBM system to be spotted in the well across the full open hole section.

Benefits

- Enables safe transportation and handling since acid generation occurs after pumping fluid downhole.
- Acid precursor eliminates pin-holes and inadequate coverage compared to applications with strong acids and live organic acids.
- Restores production and injection within reservoirs blocked with WBM filter cakes containing carbonate as a weighting agent or from carbonate drill cuttings.
- Maximize effectiveness of damage removal with a single spacer containing both acid precursor and enzymes.

Application

ORCA[™] HA organic acid precursor 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 range of 20°C to around 150°C and is particularly useful where medium to high density completion brines are used.

Treatment Recommendation

Prior to utilizing ORCA[™] HA 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 ORCA[™] HA is typically in the range of 4-12% v/v depending on the known concentration of carbonates within the filter cake.

The rate of acid production from ORCA[™] HA may be accelerated downhole by including GBC-1 catalyst in the fluid formulation. Cleansorb[™] polymer breakers such as starch, cellulose, or xanthan breaker enzymes can also be incorporated into ORCA for WBM formulations to deliver simultaneous downhole acidizing and polymer breaker treatments.

Typical Physical Properties

Appearance	. Clear liquid free from suspended matter
Color, Hazen	< 100
Specific Gravity	

Handling and Storage

ORCA[™] HA 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

ORCA[™] HA is available in: 240-kilogram (204-liter) steel drums and 1,100-kilogram (936-liter) IBCs as required.

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