ORCA B



Organic Acid Precursor

Description

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

Benefits

- Acid precursor eliminates pin-holes and inadequate coverage compared to application with strong acids and live organic acids.
- Restores production and injection within reservoirs blocked with OBM 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 surfactants.

Application

ORCA™ B 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 oil-based muds including invert emulsions, synthetic oil based and ester-based drilling or drill-in fluids.

Common base fluids for ORCA for OBM 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 80°C. With appropriate placement techniques it can be used at higher downhole reservoir temperatures particularly if the duration of the mud damage removal is to be minimized.

Treatment Recommendation

Prior to utilizing ORCA™ B or other components of the ORCA for OBM system, lab testing is required to test for compatibility and effectiveness against the specific type of damage anticipated downhole. Concentration of ORCA™ B is typically in the range of 4-12% v/v depending on the known concentration of the carbonates within the filter cake.

Cleansorb™ surfactants can also be incorporated into ORCA for OBM formulations to deliver simultaneous downhole acidizing and oil solubilization treatments.

Typical Physical Properties

Appearance	Clear, pale yellow liquid
Specific Gravity	1.2

Handling and Storage

ORCA™ B 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™ B is available in: 210-kg (175-liter) plastic drum and 1100-kg (917-liter) IBCs as required.

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