

Biocide KHF003N

1. Introduction

The mixing water for the preparation of fracture fluid should be free of bacteria and enzymes. Either can cause degradation of the polymer and premature viscosity break. They can also prevent viscosity development because bacteria produce enzymes to which most guar or guar derivative polymers are particularly sensitive.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KHF003N	Clear to Light-yellow Liquid	0.95-1.00	Soluble	>93	Eyes, Skin, Inhalation	None	7.0-8.5

3. Chemical Properties and Application

KHF003N acts as a high-efficiency biocide commonly used in fracturing fluid systems for unconventional oil and gas development. The water and organic components in fracturing fluids tend to produce large quantities of bacteria which have adverse effects on fluid properties and stability. The addition of KHF003N can effectively inhibit and eliminate bacteria in the fluid system and stabilize the fracturing fluids. It ensures safe and efficient fracturing operations under complex downhole conditions.

4. Treatment

The recommended concentration for KHF003N is 0.25-0.75 Gal/1,000 Gal of mixing water.

5. Packaging

KHF003N is packed in 55 gallons HDPE drums or 265 gallons HDPE IBC totes.

Keep it away from extreme conditions such as places near flames or direct sunlight.