



TECHNICAL DATA SHEET (TDS)

Biocide for Drilling Fluids

Product Identification

Item	Description
Product Name	Biocide for Drilling Fluids
Product Type	Broad-Spectrum Microbial Control Agent
Function	Bactericide / Fungicide / Microbicide
Application	Water-Based and Synthetic Drilling Fluids
Manufacturer	Basekim

Product Description

Biocide for Drilling Fluids is a high-performance antimicrobial additive designed to control bacterial, fungal, and microbial contamination in drilling mud systems. The product helps prevent slime formation, microbiologically induced corrosion (MIC), biofilm development, fluid degradation, and hydrogen sulfide (H₂S) generation caused by sulfate-reducing bacteria. It enhances drilling fluid stability and extends equipment service life.

Typical Properties

Property	Typical Value
Appearance	Clear to Slightly Yellow Liquid
Odor	Mild Characteristic
Density @ 25°C	1.00 – 1.15 g/cm ³
pH (1% Solution)	4.0 – 8.0
Solubility	Completely Dispersible in Water
Active Content	Proprietary
Thermal Stability	Suitable for High-Temperature Drilling Systems
Compatibility	Compatible with Most Water-Based Mud Additives

Values shown are typical and not intended as product specifications.



Key Benefits

- Broad-spectrum control of bacteria and fungi
- Prevents slime and biofilm formation
- Reduces microbiologically induced corrosion
- Improves drilling fluid stability
- Minimizes non-productive time (NPT)
- Extends drilling fluid service life
- Suitable for continuous and shock treatment programs
- Available in environmentally responsible formulations upon request

Applications

- Water-based drilling fluids
- Completion fluids
- Workover fluids
- Circulation systems
- Mud pits and storage tanks
- Offshore and onshore drilling operations

Recommended Dosage

Application	Dosage
Continuous Treatment	100 – 200 ppm
Shock Treatment	500 – 1500 ppm
Severe Contamination	As Recommended by Technical Service Team

Actual dosage should be determined based on microbial testing, fluid conditions, and operating parameters.

Handling & Storage

- Store in original sealed containers.
- Keep in a cool, dry, and well-ventilated area.
- Protect from direct sunlight and freezing.
- Avoid contamination during handling.
- Refer to the Safety Data Sheet (SDS/MSDS) before use.



Packaging

Available in:

- 25 kg HDPE drums
- 200 kg drums
- 1000 kg IBC containers
- Bulk supply upon request

Shelf Life

12–24 months when stored under recommended conditions in unopened original packaging. Based on standard industrial chemical storage practices.

Typical Performance

The product effectively controls:

- Sulfate-Reducing Bacteria (SRB)
- Acid-Producing Bacteria (APB)
- Slime-forming microorganisms
- Yeasts and molds
- Biofilm-producing microbial colonies

Resulting benefits include improved drilling efficiency, reduced corrosion rates, and longer fluid life.