

Bio-Clear® 1000 Bactericide

Acts rapidly to disperse uniformly in fluids and kill microorganisms encountered in oil-field operations

Applications

- Oilfield applications such as drilling, completion, workover fluids, fracturing fluids, packer fluids, produced water before re-injection, and shock treatments for water flood injection water
- Effective in system with a pH below 9.0

Features and Benefits

- Rapidly kills microorganisms and typically decontaminates a system within 1 hour
- Highly concentrated for effectiveness at very low concentrations
- Effective against a broad spectrum of aerobic and anaerobic microorganisms
- Reduces population of sessile and planktonic organisms known to plug injection wells
- Nonfoaming and unaffected by organic materials
- Does not interfere with the performance of enzyme breakers
- Water soluble and easy to mix and dilute uniformly; not affected by hard water or salts

Product Description

The Bio-Clear® 1000 bactericide rapidly and effectively kills microorganisms encountered in oilfield operations, including sulfate-reducing and algal slime-forming bacteria. It is a 100% active, dry brominated propionamide (DBNPA) that, for safe handling, is packaged in special water-soluble bags that quickly dissolve, even in cold water. Thanks to its short acting time, Bio-Clear 1000 can still be used where the treatment calls for pH adjustment. DBNPA decomposes rapidly as pH increases, and Bio-Clear 1000 does not persist in the environment because it has a very short life; therefore, it is considered one of the safest bactericides and is registered with the EPA.

For best results, Bio-Clear 1000 should be added to tanks before they are filled with water. A loading of 3 bags (0.15ppt) per 500 bbl can be used as a starting concentration.



Specifications

Physical Properties

Appearance	White to off-white powder
DBNPA (minimum)	97% by weight
Melting point	257°F (125°C)
Specific gravity (g/cc)	1.25 to 1.35
pH, 1% solution	4.1 to 4.5
Ionic charge	Nonionic
Weight per bag	1.0 lb (0.45 kg)

* Bio-Clear is a registered trademark of Lubrizol Corporation.

