

Glutaraldehyde

Description

Glutaraldehyde is an aqueous mixture of aldehydes widely used as biocide in oil and gas industry, water treatment and as disinfectant in health care and other industries. Glutaraldehyde is hydrophilic (water miscible), biodegradable and non-bioaccumulative.

Applications

Glutaraldehyde can be used in all types of water based drilling fluids and completion fluids to prevent and control bacterial growth. It is often used in polymer based drilling fluids to control bacteria contamination and prevent the biodegradation of natural and semi-natural polymers such as starch, CMC, PAC, HEC, guar gum, especially for prolonged fluid use and re-use. In off-shore applications, it is added to the well injection sea water to control the sulphate-reducing bacteria and other bacterial activity.

Features and Benefits

- Provides control of aerobic and/or sulphate-reducing bacteria in water based drilling fluids, completion fluids, fracturing fluids and production wells.
- Helps maintaining fluid rheology and fluid loss control by preventing the biodegradation of natural and semi-natural polymers in water based fluids.
- Helps reduce corrosion by preventing production of acid gases due to bacterial growth.
- Does not foam and does not adversely interact with formation fluids, drilling fluids or completion fluids.

Typical Properties

Appearance	Liquid
Color	Clear, colourless
Specific Gravity	1.062-1.124
Melting Point	-6°C
Solubility	Miscible in water

Recommended Treatment

Glutaraldehyde is recommended to be used in batch applications only. The recommended application is periodic batch treatment at a concentration of 0.1 %vol. Treatment frequency is based on severity of bacteria problem. Success of the Glutaraldehyde treatment may be monitored using bacteria culture test methods.

Safety and Handling

Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging

Glutaraldehyde is available in 5 gal (18.9 L) pails.

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