

## MACJAMES® MBIO-14A - BIOCIDES LIQUID

### PRODUCT TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION

#### FEATURES AND BENEFITS

- **Soluble in water**
- **Effective Biocide for Sulphate-Reducing Bacteria (SRB)**
- **Compatible with water-based drilling fluid**
- **Easily Neutralized.**
- **Can be used as a pretreatment.**
- **Can also be used for already contaminated fluids.**
- **Low agitation requirement.**
- **Easily handled**

**MACJAMES® MBIO-14A - Biocides Liquid** is a non-ionic, colourless glutaraldehyde-based biocide. It is effective in controlling both aerobic and anaerobic Sulphate Reducing Bacteria (SRB). It is compatible with all water-based drilling fluids and can be neutralized prior to disposal.

**PACKAGING:** 20 Litres, 25 Litres, 200 Litres and IBC tanks (1,000 Litres), others on request.

#### APPLICATION INFORMATION:

**MACJAMES® MBIO-14A - Biocides Liquid** recommended treatment is dependent on the severity of the bacterial contamination. As a pre-treatment: Add 0.1 - 0.5 Litre/m<sup>3</sup> to the mud system and monitor with microbial dip slides. For already contaminated fluids: Add 0.5 - 2.5 Litres/m<sup>3</sup> treatments until bacterial control is achieved. Several Microtox Tests have determined the following procedure will deactivate this product and should provide a non-toxic response in drilling mud. (Microtox = >100% @ 0.1 - 0.5 Litre/m<sup>3</sup>)

1. Increase the pH of the mud to 12.0 and hold for four hours.
2. Neutralize mud back to pH 7.0 with an appropriate acid (depending on mud composition).

#### MIXING AND HANDLING:

**MACJAMES® MBIO-14A** should be added at a point of low agitation. Do not mix through the hopper or at a point of high agitation as splashing may occur. It is corrosive and will cause irreversible eye damage. Wear suitable protection for eyes and skin and ensure there is adequate ventilation in the mixing area.

#### PRECAUTIONS:

- Avoid skin and eye contact, inhalation or ingestion.
- For Skin Contact, wash with soap and large amount of water.
- For Eye Contact, flush with large amount of water and seek medical attention.
- Use appropriate respirator if ventilation is poor.

PHYSICAL PROPERTIES			
Appearance/Colour:	Clear to light yellow	State	Liquid
Odour	Moderately fruity.	Vapour pressure @ 20°C	0.2 mmHg
Specific Gravity @ 20°C	1.06	Water solubility:	Soluble
Viscosity	6.2 Cst	Evaporation rate	Not available
pH	4.5 - 5.6	Vapour Density (Air = 1):	Not available
Freezing Point:	Not Available	Boiling Point:	98.9°C

### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING.

HEALTH	1	0 - Minimal
FLAMMABILITY	0	1 - Slight
PHYSICAL HAZARD	0	2 - Moderate
PERSONAL PROTECTION	B	3 - High
		4 - Very High

**NB:** The Material Safety Data Sheet (MSDS) of **MACJAMES®Mbio-14A - Biocide** Liquid is readily available for more information or contact us at [info@macjamesglobal.com](mailto:info@macjamesglobal.com).

**NON-WARRANTY** – All data, statements and recommendations contained herein are based upon the best information available and are believed to be reliable. However, no warranty, either expressed or implied, is made concerning the application of this product since the customer's use cannot be

