

## **PRO-104 Biocide**

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PRO-104 is a water soluble aldehyde based biocide.

### **Product Use Information**

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Bacteria or more commonly “bugs” as they’re referred to in the oil and gas industry are natural microorganisms and bacteria encountered in oil/gas operations usually found in dark, warm and stagnant environments. In most cases, they are found wherever produced water is handled such as tanks, re-injection wells etc.

PRO-104 has been shown to be effective in controlling the growth of acid producing bacteria APB's and sulphate reducing bacteria SRB's and also bacteria and algal slime forming bacteria.

### **PRO-104 Batch Volumes**

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Initial batch volumes of 1000 ppm based on vessel capacity has shown drastic reduction of bacteria levels within heavily contaminated systems

Maintenance monthly batch volumes of 250 ppm based on vessel capacity has been shown to be adequate treat oilfield systems.

### **Corrosion Monitoring Techniques**

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- Biocide kill study
- Bacteria bottle incubation

## **Physical Properties**

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Density,	1.0 – 1.1
Form,	Liquid
pH,	6 - 7
Appearance,	Tan
Solubility,	
	Fresh Water – Soluble
	Oilfield Brine – Soluble
	Methanol – Soluble
	Aromatic Solvent – Soluble

## **Material Compatibility Information**

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Metals: 316 Stainless steel

Plastic: HD polyethylene  
HD polypropylene  
Teflon

Elastomers: Polytetrafluoroethylene [Teflon]

## **Application Information**

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PRO-104 has been effectively used in applications such as: drilling, completion, commissioning, water injection fluids, water disposal systems and also routine maintenance of oilfield systems including water storage tanks, inlet separators and treaters.